

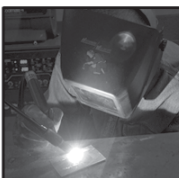
WAYNE COMMUNITY COLLEGE



catalog and *student handbook* 2012-13

www.waynecc.edu

WAYNE COMMUNITY COLLEGE



catalog 2012-13

P.O. Box 8002 • Goldsboro, N.C. 27533-8002 • 919-735-5151

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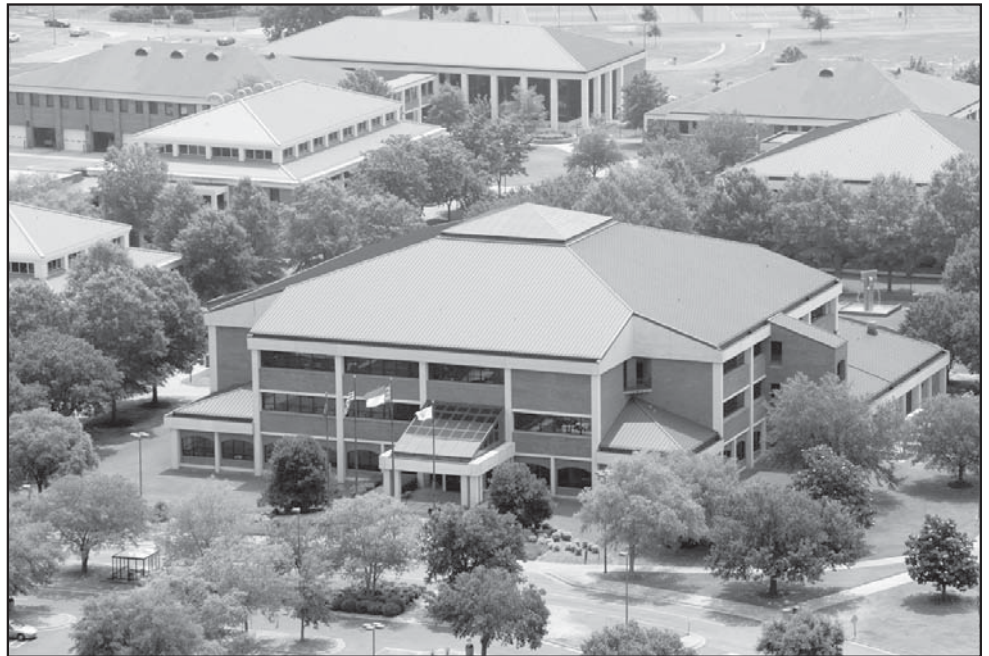
This catalog/student handbook is current as of June 20, 2012. Check the WCC on-line catalog/student handbook at www.waynecc.edu/catalog-schedules/ for the most up-to-date information.

CELEBRATING OVER FIFTY YEARS OF QUALITY EDUCATION, AND COMMUNITY SERVICE

1957 Industrial
Education
Center

1963 Technical
Institute

1967 Community
College



Wayne Community College is dedicated to equality of opportunity in all areas of education and employment. Accordingly, Wayne Community College does not practice or condone discrimination against students, employees, or applicants on the basis of race, color, national origin, religion, sex, age, or disability. Wayne Community College is an Equal Opportunity, Affirmative Action institution and accommodates the needs of individuals with disabilities.

Wayne Community College issues this catalog for the purpose of furnishing prospective students and other interested persons with information about the institution and its programs. Announcements contained herein are subject to change without notice and may not be regarded as binding obligations on the College or state. Efforts will be made to keep changes to a minimum, but changes in policy by the State Board of Community Colleges, the North Carolina Community College System, or by local conditions may make some alterations in curriculums, fees, etc., necessary. For additional information, contact the College at (919) 735-5151 or view our website at www.waynecc.edu.



WAYNE COMMUNITY COLLEGE

W h e r e F u t u r e s G r o w

President's Message

Welcome to Wayne Community College. We are delighted that you are interested in our college and look forward to helping you achieve your educational goals.

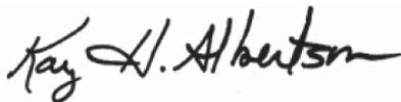
Wayne Community College consistently provides its students with quality instruction and outstanding services and experiences. However, what sets the college apart from others are the relationships you will form with faculty and staff and their level of concern and commitment to your success.

As a part of Wayne Community College, you will have many opportunities to grow beyond the classroom, to experience cultural and professional events on campus, to create friendships and networks, and to meet local business, industry, and community leaders. We find that student/college relationships continue long after students have met their initial academic goals. Former students return to visit with the individuals who impacted their lives so positively and to give back to their alma mater.

Annually, Wayne Community College serves more than 14,000 people on our main campus, at Seymour Johnson Air Force Base, at various off-campus sites, and online. We assist each one of the individuals with finding the degree, diploma, or certificate program, the customized corporate training, or the market-focused continuing education and special interest class that fits his or her goals.

If you are looking for a first class education from an institution that truly cares about you, you've found the right college.

Welcome!



Kay H. Albertson, Ed. D
President



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CREATING SUCCESS FOR YOU! HOPE, OPPORTUNITY, AND JOBS

Wayne Community College is accredited by the Southern Association of Colleges and Schools to award associate degrees. Contact the Commission on Colleges at 1866 Southern Lane, Decatur, Georgia 30033-4097 or call 404-679-4500 for questions about the accreditation of Wayne Community College.

The Commission on Colleges may be contacted only if there is evidence that Wayne Community College is significantly non-compliant with a requirement or standard. Accreditation standards are located at: <http://www.sacscoc.org/principles.asp>

The purpose for publishing the Commission's access and contact numbers is to enable interested constituents (1) to learn about the accreditation status of the institution, (2) to file a third-party comment at the time of the institution's decennial review, or (3) to file a complaint against the institution for alleged non-compliance with a standard or requirement.

Inquiries about Wayne Community College, such as admission requirements, financial aid, educational programs, etc. should be addressed directly to Wayne Community College and not the Commission's office. Wayne Community College is an Equal Opportunity/Affirmative Action College and accommodates the needs of individuals with disabilities. It is the intent of the College that all courses be accessible to all qualified students. It is the student's responsibility to make his or her disability known sixty days prior to enrollment. The student must request academic adjustments by contacting the Disability Services Counselor at 919-739-6728.

Student Right-to-Know: Information regarding the persistence rate of enrolled students toward graduation and transfer-out-rate is available in the Office of Admissions and Records. Student rights under FERPA are available at www.ed.gov/policy/gen/guid/fcpo/ferpa/index.html or in the Office of Admissions and Records and in the Office of Counseling Services.

Wayne Community College issues this schedule for the purpose of furnishing prospective students and other interested persons with information about the institution and its programs. Announcements contained herein are subject to change without notice and may not be regarded in the nature of binding obligations on the college or state. Efforts will be made to keep changes to a minimum, but changes in policy by the State Board of Community Colleges, the Community College System, or by local conditions may make some alterations in curriculums, fees, etc., necessary. For additional information, contact the college at (919) 735-5151 or visit our Web site at www.waynecc.edu.

Wayne Community College is a tobacco-free institution.

Wayne Community College Calendar 2012 - 2013

FALL SEMESTER 2012

August	13	8:30 a.m. - 4:00 p.m.	Faculty/Staff Convocation
	14	8:00 a.m. - 7:00 p.m.	Registration
	15	8:00 a.m. - 4:00 p.m.	Registration
	16		Classes Begin (Campus, Base)
September	3		Labor Day Holiday
October	5-9		Students Fall Break
	16		Midterm
	30		Last Day to Drop Classes
November	6-8	8:00 a.m. - 4:00 p.m.	Spring 2013 Priority Registration for Students Enrolled in Fall 2012*
	9	8:00 a.m. - 12:00 p.m.	Spring 2013 Open Registration for New and Current Students
	12	1:00 p.m. - 7:00 p.m.	Spring 2013 Open Registration for New and Current Students
	13-15	8:00 a.m. - 4:00 p.m.	Spring 2013 Open Registration for New and Current Students
	16	8:00 a.m. - 12 p.m.	Spring 2013 Open Registration for New and Current Students
	21-23		Thanksgiving Holiday for Students
December	7	8:00 a.m. - 12:00 p.m.	Spring 2013 Open Registration for New and Current Students
	12		Last Day of Classes
	13		Reading Day
	14, 17	8:00 a.m. - 6:00 p.m.	Exams

SPRING SEMESTER 2013

January	2		Professional Development
	3	8:00 a.m. - 7:00 p.m.	Registration
	4	8:00 a.m. - 12:00 p.m.	Registration
	7		Classes Begin (Campus, Base)
	21		Martin Luther King Holiday
February	28		Midterm
March	19	5:00 p.m.	Last Day to Drop Classes
	29		Easter Holiday
April	1-5		Spring Break
	11	8:00 a.m. - 7:00 p.m.	Summer 2013 Priority Registration for Students Enrolled in Spring 2013*

April	12	8:00 a.m. - 12:00 p.m.	Summer 2013 Open Registration for New and Current Students
	15,16,18	8:00 a.m. - 4:00 p.m.	Fall 2013 Priority Registration for Students Enrolled in Spring 2013*
	18	8:00 a.m. - 7:00 p.m.	Fall 2013 Priority Registration for Students Enrolled in Spring 2013*
	19	8:00 a.m. - 12:00 p.m.	Fall 2013 Priority Registration for Students Enrolled in Spring 2013*
May	3		Last Day of Classes
	6		Reading Day
	7-8	8:00 a.m. - 6:00 p.m.	Exams
	9	TBA	BSP Graduation
	10	TBA	Curriculum Graduation

SUMMER SEMESTER 2013

May	20	8:00 a.m. - 7:00 p.m.	Registration
	21	7:00 a.m.	Classes Begin (Campus, Base)
	27		Memorial Day Holiday
June	24		Midterm
July	2	5:00 p.m.	Last Day to Drop Classes
	4		July 4th Holiday
	15,17,18	8:00 a.m. - 4:00 p.m.	Fall 2013 Open Registration for New and Current Students
	16	8:00 a.m. - 7:00 p.m.	Fall 2013 Open Registration for New and Current Students
	25		Last Day of Classes
	29,30	8:00 a.m. - 6:00 p.m.	Exams

*Contact the Office of Admissions and Records for Preregistration Schedule.

CALENDAR SUBJECT TO CHANGE.

Curriculum students should contact the Office of Admissions and Records for information on classes that have beginning dates which differ from the start of the semester. Continuing Education students should contact the Office of Continuing Education for information on classes that have beginning dates which differ from the start of the semester. This calendar reflects class meetings for curriculum students unless otherwise noted. Students in Continuing Education (CE) or Adult High School (BSP) Programs should consult published schedules of classes or WCC website for specific class meeting information.

GENERAL INFORMATION

The Campus

Wayne Community College's 175 acre main campus is located in Goldsboro, NC at 3000 Wayne Memorial Drive. Eleven modern buildings contain more than 360,000 square feet of state-of-the art classrooms, laboratories, offices, and a model childcare center.

An aviation classroom and hanger are located at the Wayne Executive Jetport. In addition, curriculum and continuing education courses are offered at Seymour Johnson Air Force Base and various locations throughout Wayne County.

The History

A member of North Carolina's system of 58 community and technical colleges, Wayne Community College was established as Goldsboro Industrial Education Center on June 15, 1957. The original on-campus building was completed in November 1960, and until fall 1962 all courses were taught in the evening, and all students were part time.

In the 1962-63 school year, the first full-time courses were offered leading to diplomas in automotive mechanics, electronics, drafting, and practical nursing. During the 1962-63 school year, Goldsboro I.E.C. had 47 students enrolled with eight faculty members; 1963 through 1965 three extension units of Goldsboro I.E.C. were established in Morehead City, Kenansville, and Clinton; later to become Carteret, James Sprunt, and Sampson community colleges.

In January 1964, Goldsboro I.E.C. became Wayne Technical Institute. By fall 1966, the enrollment had increased to approximately 550 curriculum students and more than 1,500 extension students. During the late sixties, several additional classroom buildings were added to the campus.

In November 1967, a community vote approved the necessary financial support, and Wayne Technical Institute became Wayne Community College. By the fall of 1968, the enrollment had risen to nearly 700 curriculum students.

The student population's rapid growth overwhelmed the facilities. In January 1974, the Board of Trustees commissioned a master plan for campus relocation to Wayne Memorial Drive. The first building on the new campus, constructed in 1978, housed auto-diesel technology, welding, watchmaking, drafting and electronics programs.

A local bond referendum in 1986 provided \$9.9 million in construction funds, which were matched by state funds during the years to follow. By the fall of 1992, five buildings were completed. A 1993 statewide bond referendum provided the \$6.3 million necessary to add two more buildings on campus and an aviation building at the local airport. All were in use by the winter of 1996.

Enrollment and program offerings continued to grow, and so has the campus. In the fall of 2000, voters overwhelmingly approved a statewide Higher Education Bond that provided Wayne Community College nearly \$13 million for construction, renovation and repair. Three buildings were built and several functional areas were reconfigured and renovated, with the last of the new facilities opening in spring 2007.

The 2007-2008 school year marked the 50th anniversary of Wayne Community College. Through the decades, Wayne Community College established a reputation for quality in certificate, diploma, and associate degree programs which prepare students for promising careers. The college also takes pride in its associate degree in arts and associate degree in science college transfer programs and its graduates who have a high success rate at four-year institutions.

Use of technology in the classroom, modern computer labs, and options for Saturday, evening, and distance learning courses have made instruction at Wayne Community College more effective and convenient for students. As the instructions options have increased, so has Wayne Community College's enrollment, which now stands at more than 13,500

curriculum and non-credit students.

Wayne Community College will strive to maintain its long-standing reputation for quality training and education of our community's citizens. Wayne Community College was accredited by the Southern Association of Colleges and Schools in 1970, and was reaffirmed in 1974, 1986, 1995, and 2006.

The Community

Located in the east-west corridor between Raleigh to the west and the Outer Banks coastal region to the east, Wayne County is one of the leading agricultural areas of the coastal plains of North Carolina. The City of Goldsboro, the county seat, is the center of population, serving a major economic function as the trade and service center for Wayne County. The population of Goldsboro and Wayne County is 122,623. Wayne County, formed in 1770, was named for the great Continental Army General, Anthony Wayne. Almost a century later, in 1865, the last battle of the War Between the States was fought at Bentonville, 18 miles west of Goldsboro.

Since the mid-1960s, industrial growth led Wayne County to a more balanced industrial-agricultural economy. Agriculture continues to be the major source of income for Wayne County residents. Tobacco is the principal cash crop followed by corn, cotton, grains, and soybeans. Livestock and poultry are major sources of income for Wayne County farmers.

Numerous manufacturing companies are located throughout the area. Manufacturing is diversified in Wayne County, including furniture and cabinets, metal fabricating, electrical components, transformers, replacement automotive parts, aviation-related cargo systems, mass transit power systems, packaging, and food stuffs such as tortillas, bread, pickles, and pork products.

Five local newspapers, four radio stations, and a modern 316-bed hospital serve Wayne County. There are close to 170 churches which represent various religious faiths. Varied recreational facilities include swimming pools, parks, public and private golf courses, a Family "Y" and a state park. The county is home to several historic sites, museums, and arts and cultural organizations. Numerous festivals provide year-round activities and entertainment.

Seymour Johnson Air Force Base, one of the most important and modern bases in the United States, is located at Goldsboro. It is the home of the Air Combat Command's 4th Fighter Wing, the 916th Air Refueling Wing, an Air Force Reserve Command Unit, and several other squadrons and detachments.

Campus Security Act

The Campus Security Act was signed into law in 1990, as a part of the Higher Education Act of 1965. It is a federal law that requires colleges, universities and postsecondary institutions to disclose certain timely and annual information about campus crime and security policies. Amendments to the Act in 1998 renamed it the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act in memory of Jeanne Clery.

The Act requires an annual report be prepared and made available automatically to all current students and employees, and notification of its existence to prospective students and employees and afforded opportunity to request a copy.

Each school must disclose crime statistics in the following seven (7) major categories, with several sub-categories: 1.) Criminal Homicide broken down by a.) Murder and Non-negligent Manslaughter and b.) Negligent manslaughter; 2.) Sex Offenses broken down by a.) Forcible Sex Offenses (includes rape) and b.) Non-forcible Sex Offenses; 3.) Robbery; 4.) Aggravated Assault; 5.) Burglary; 6.) Motor Vehicle Theft; and 7.) Arson. The following three types of incidents if they result in either an arrest or disciplinary referral are also required to be reported:

1.) Liquor Law Violations; 2.) Drug Law Violations; and 3.) Illegal Weapons Possession. If both an arrest and referral are made only the arrest is counted.

Schools are also required to provide "timely warnings" which are triggered only when the school considers a crime to pose an ongoing "threat to students and employees."

The annual report is available at www.waynecc.edu/administration/educational-support/security and printed copies are available at the Campus Police and Security Department.

College Mission

Wayne Community College is a learning-centered, public, two year college with an open door admissions policy. Through its programs and services, the College develops a highly skilled and competitive workforce for Wayne County. The College offers high quality, affordable, and accessible learning opportunities to those it serves.

In order to fulfill our mission most effectively, the college strives to:

- a. Assist students in developing both personal and marketable skills through lifelong learning.
- b. Enable students to continue their education at other institutions.
- c. Increase the global and cultural awareness of our students and the greater community.
- d. Provide training for local businesses, industries, and government.
- e. Enhance the quality of life in the community.

College Goals (2011-2016)

Students - Enhance student success through college-wide programs and services.

Educational Programs - Provide opportunities for excellence in learning through accessible, high quality educational experiences.

Personnel - Enhance the effectiveness of employees through enrichment opportunities.

Administration and Finance - Improve the efficient use of all available resources through a comprehensive planning and management system.

Facilities - Provide an attractive, flexible, and accessible learning environment that meets the needs of the community served.

Institutional Advancement - Enhance the effectiveness and accountability of the college through integrated planning, research, marketing, resource development, and management.

Community - Strengthen the partnership between the college and the community through programs and services.

Technology - Integrate state-of-practice technology in all aspects of the college's programs, services, and operations.

Diversity - Provide programs and services that respond to the diversity within the college, local community, and global community.

College Institutional Learning Outcomes

A graduate of Wayne Community College should be able to:

1. Make effective oral presentations.
2. Compose effective written documents
3. Analyze aspects of human culture, such as creative expressions or diverse social structures
4. Apply appropriate mathematics to solve real-world problems
5. Interpret or analyze natural phenomena using concepts

and principles of the natural sciences

6. Explain social phenomena or behaviors by applying concepts and principles of the social or behavioral sciences
7. Use computer technology to achieve academic and work related goals.

College Programs

In keeping with its mission of offering high quality, affordable, and accessible learning opportunities to those it serves, the College offers the following educational programs:

1. Associate in Applied Science programs.
2. Diploma and Certificate programs.
3. Associate in Arts and Associate in Science transfer programs.
4. An adult basic education program (providing courses for adults to complete elementary and high school levels of education).
5. A continuing education occupational program (providing courses for adults to update or gain new skills).
6. Leisure and recreation programs (workshop and conference facilities, human resource development, cultural enrichment, and recreation).
7. Wayne Business and Industry Center

2011 Performance Measures Results

In February 1999, the North Carolina Board of Community Colleges adopted 12 performance measures for accountability. This action was taken in response to a mandate from the North Carolina General Assembly to review past performance measures and define standards of performance to ensure programs and services offered by community colleges in North Carolina were of sufficient quality. In the 2007 Session, the General Assembly approved modification to the North Carolina Performance Measures and Standards as adopted by the State Board of Community Colleges on March 16, 2007. As a result, the number of performance measures was reduced to eight.

Each performance measure begins with a description/definition, the standard that must be achieved, and the College's performance for that measure. Additional information on the eight performance measures can be found in the Wayne Community College Office of Institutional Advancement.

1. **Progress of Basic Skills Students.** Basic skills students include all adult literacy students. Progress of basic skills students is a composite measure that includes the percent of students progressing within a level of literacy, 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. The standard for progress is 75 percent for the adjusted composite measure. Wayne Community College's performance was 80 percent.
2. **Passing Rates on Licensure and Certification Examinations.** This measure reports the percentage of first-time test-takers from Wayne Community College passing an examination required for North Carolina licensure or certification prior to practicing the profession. There are two standards that must be met for this measure. The aggregate institutional passing rate of 80 percent and the minimum accepted performance on any single reported examination of 70 percent. Wayne Community College's performance was 74 percent.
3. **Performance of College Transfer Students.** The purpose of this measure is to compare the performance of Wayne Community College associate degree students (Associate in Arts, and Associate in Science) who transfer to

public North Carolina universities with students native to the four-year institutions. There are two standards that must be met for this measure. The first standard compares the performance of the Wayne Community College transfer degree recipients after two semesters at the public university to the performance of native juniors. The second standard compares the performance of the Wayne Community College transfer students who complete at least 24 semester hours or more of college transfer courses at Wayne Community College (but not completing the degree) to the performance of native sophomores. Both standards require that at least 83 percent of the students (an aggregate of the two categories) achieve a grade point average (GPA) of 2.0 or higher after their first year. Wayne Community College students' performance on the first standard was 87 percent and 88 percent on the second standard. When combining the two, the aggregate was 87 percent.

4. **Satisfaction of Program Completers and Non Completers.** This measure reports the proportion of graduates and early-leavers who indicate that the quality of the college programs and services met or exceeded their expectations. The standard is that 90 percent of the combined respondents will report being satisfied with the quality of Wayne Community College's programs and services. Ninety-nine percent of the combined respondents reported being satisfied with the quality of the College's programs and services.
5. **Passing Rates of Students in Developmental Courses.** The definition of this measure is the percent of students who complete developmental English, mathematics and reading courses with a grade of "C" or better. The standard is that 75 percent of students who complete a developmental course will have a grade of "C" or better for that course. Ninety-one percent of Wayne Community College students taking a developmental course completed the course with a grade of "C" or better.
6. **Curriculum Student Retention and Graduation.** This composite measure consists of the number of individuals completing a curriculum program with a certificate, diploma, or degree and number of individuals who have not completed a program but who are continuing enrollment in either curriculum or occupational extension programs. The performance standard for this measure is 65 percent of the defined fall student population will either have completed their program or still be enrolled the following fall at Wayne Community College. Sixty-nine percent of Wayne Community College students either graduated or were still enrolled at the College in 2010.
7. **Client Satisfaction with Customized Training.** This measure is intended to determine the satisfaction of organizations that received services from Wayne Community College. The performance standard for this measure is that 90 percent of businesses/industries surveyed will report satisfaction with the services provided by Wayne Community College. Ninety-five percent responded that they were satisfied with the Customized Training provided by Wayne Community College in 2010.
8. **Success Rate of Developmental Students in Subsequent College-Level Courses.** The purpose of this measure is to provide evidence that developmental courses equip students with the skills and knowledge necessary for success in their college studies, to pass curriculum courses. The standard is 80 percent of students who completed a developmental course in 2008-2009 and completed subsequent college level course in 2009-2010 will have a passing grade

for the college level course. Ninety-one percent of the students completed the college level course with a passing grade.

WCC Memberships and Approvals

- Wayne Community College is a member of:
- American Association of Community Colleges
 - American Technical Education Association
 - Aviation Technician Education Council
 - Carolina Association of Collegiate Registrars and Admissions Officers
 - National Cooperative Education Association
 - National League for Nursing Education Agency
 - North Carolina Community College System
 - Southern Association of Colleges and Schools
- Wayne Community College is recognized and approved by:
- Commission on Accreditation of Allied Health Education Programs (CAAHEP)
 - Commission on Dental Accreditation
 - Division of Vocational Rehabilitation
 - Federal Aviation Administration
 - National League for Nursing Accrediting Commission
 - North Carolina Board of Nursing
 - North Carolina Community College System
 - North Carolina Department of Public Instruction
 - Servicemen's Opportunity College
 - Southern Association of Colleges and Schools

Admissions

Admissions Requirements and Procedures

Admission to the College

Wayne Community College subscribes to the "open door" policy as set by the North Carolina Community College System. The College will admit all applicants who are high school graduates or equivalent (GED) or eighteen years old or older. If a student elects to enroll in a course for which there is a prerequisite, evidence of meeting the prerequisite is required. The College serves all students regardless of race, color, sex, creed, national origin, age, or disability.

Admission to Curriculum Programs

High school graduation from an accredited school or equivalent (GED) is required for admission to all curriculum programs except Air Conditioning, Heating, and Refrigeration Technology (D35100) and Welding Technology (D50420).

Persons wishing to apply for admission to a curriculum program should contact the Office of Admissions and Records, 919-739-6720, for necessary forms and testing/interview appointments. The following items are generally required for all curriculum programs:

1. Application
2. High school transcript
3. GED certification and scores, if high school equivalent
4. College transcripts of all previous work (official copy from each college/university attended to be evaluated for transfer credit)
5. Residence status application
6. Placement test
7. Counselor interview

Note: If interested in Financial Aid, please refer to the section on Financial Aid for specific requirements.

ACT or SAT Test Scores

Dental and Nursing programs that require the ACT or SAT TEST SCORES: Scores should be submitted to Wayne Community College directly from **ACT** (College Code #3171) or directly from **SAT** (College Code #5926). Registration information can be obtained from the Office of Counseling Services at Wayne Community College, area high school guidance counselors, or from ACT (telephone 319-337-1270 or online at www.act.org) and from SAT at (telephone 866-756-7346 or online at www.collegeboard.org). ACT and SAT scores taken within the last 5 years will be considered by the Admissions Committee. The Office of Admissions and Records must receive ACT or SAT scores prior to the application deadline date.

Placement Testing

The COMPASS Placement Service by the American College Testing Program (ACT) is administered on campus to all applicants as required for their program of study. This battery consists of tests designed to measure reading, English, and mathematical skills. The college also uses an institutionally-developed assessment to measure computer skills. The results of these tests are used to assist the student and college personnel in planning an appropriate program of study for each student. Testing sessions are scheduled throughout each semester, and applicants are scheduled in advance for a test date. Placement test preparation guides can be found on the website at: www.waynecc.edu/counseling. For individualized test preparation, contact the Academic Skills Center located on the third floor of the Learning Center Building. See website at: www.waynecc.edu/academic-skills-center.

Placement tests for distance education students can be taken at most North Carolina community colleges and many out-of-state colleges. Students with an associate degree or higher, or appropriate college credit, or appropriate ACT/SAT scores may be exempt from taking the placement test. Contact the Office of Admission and Records at (919) 739-6720 or Counseling Services at (919) 739-6732. Wayne Community College accepts COMPASS, ASSET, or ACCUPLACER scores taken at other colleges. All scores used for placement must be less than three years old.

Retest Policy

Students may test twice in a six-month period. Students are encouraged to seek remediation before retesting. After the second test, students must wait six months before testing a third time. Students may not retest while enrolled in a pre-curriculum class unless applying for a limited admission program. After the third test, a student must wait one year before testing again.

In an effort to ensure that proper placement is maintained, test scores must be less than three years old. If an applicant/student has placement scores more than three years old and has not completed the appropriate reading, English, math or computer courses, he/she will be required to retest.

Criminal Records, Drug Testing and Health Screening

Affiliation agencies used by selected programs may require students to submit to criminal background checks, drug testing and/or health screening prior to or during participation in class, lab, clinical, or co-op experiences at their site. Students should be aware that progress toward graduation may be limited by any inability to meet the agency requirements for student placement. Please refer to application policies and procedures packets for specific program requirements available in

the Office of Admissions or on the Wayne Community College website at www.waynecc.edu/alliedhealth.

Limited Admission Programs (Allied Health)

Students seeking admission to limited admission programs must complete a separate application and meet additional admission requirements and specific application dates. Application Policies and Procedures packets that include program specific admission process information for each limited admission program are available on the WCC website www.waynecc.edu/alliedhealth.

Applicants to the Allied Health programs must compete for space due to the nature of limited enrollment restrictions. A point system is used for selecting students for each program.

The information in the Application Policies and Procedures packets for Fall 2012 supersedes all previously published information. Applicants to limited admissions programs are advised that any attempt to conceal information, supply false information on an application or manipulate the admissions process will, when discovered, result in the immediate withdrawal of any offer of admission to any limited admissions program. If discovered while the individual is a student in a limited admissions program, such actions will result in dismissal from the program. The following programs are limited in the number of students who may be admitted each year:

- Associate Degree Nursing (Registered Nursing)
- Practical Nursing
- Dental Assisting
- Dental Hygiene
- Medical Assisting
- Pharmacy Technology
- Phlebotomy

Associate Degree and Practical Nursing

The additional requirements for admission to the Associate Degree and Practical Nursing Programs are listed in the Application Policies and Procedures packets and on the WCC website www.waynecc.edu/admissions/allied-health. Also, upon admission to the Nursing Programs, applicants must:

- A. submit verification of physical and emotional health on the Student Medical Form.
- B. submit documentation of required immunizations.
- C. complete criminal background checks and drug testing. Applicants should be aware that if a clinical site denies a student placement in their facility, the student will be unable to complete the required clinical component of the course. The student will be withdrawn from all NUR courses and will not be allowed to progress in the nursing program.

Note: An applicant to a nursing program should be aware that a person who has been convicted of or pled guilty to a felony or misdemeanor (other than a minor traffic violation) may not be eligible for licensure by the NC Board of Nursing. The North Carolina Board of Nursing requires Criminal History Record Checks of all persons applying to practice nursing in the State of North Carolina. Applicants will be charged a fee to offset the cost of this background check.

Dental Hygiene and Dental Assisting

The additional requirements for admission to the Dental Hygiene and Dental Assisting Programs are listed in the Application Policies and Procedures packets, and on the WCC website www.waynecc.edu/

admissions/allied-health. Also, upon admission to the Dental Programs, an applicant must submit:

- A. verification of physical and emotional health on the Student Medical Form.
- B. documentation of required immunization.
- C. certification and documentation of having received the first of three required Vaccines for Hepatitis B (prior to new student orientation).
- D. proof of current Health Care Provider CPR certification (AHA recommended).

Note: Any candidate for admission to the Dental Hygiene program should be aware that if he or she has been convicted of a felony or a misdemeanor involving moral turpitude or gross immorality the North Carolina Board of Dental Examiners, depending upon the nature of the offense, may choose to deny the candidate licensure to practice Dental Hygiene according to Section 90-30 of the Dental Practice Act of the State of North Carolina.

Medical Assisting

The additional requirements for admission to the Medical Assisting Program are listed in the Application Policies and Procedures packets and on the WCC website www.waynecc.edu/admissions/allied-health. Also, upon admission to the Medical Assisting Program an applicant must:

- A. submit verification of physical and emotional health on the Student Medical Form.
- B. submit documentation of required immunizations.
- C. complete required criminal background checks and drug testing. Applicants should be aware that if a clinical site denies a student placement in their facility, the student will be unable to complete the required clinical component of the course. The student will be withdrawn from all MED courses and will not be allowed to progress in the Medical Assisting Program.

Note: Any candidate for admission to the Medical Assisting program should be aware that a person convicted of a felony may not be eligible for the certification examination administered by the American Association of Medical Assistants (AAMA). However, the Certifying Board may grant a waiver based upon mitigating circumstances.

Pharmacy Technology

The additional requirements for admission to the Pharmacy Technology Program are listed in the Application Policies and Procedures packets and on the WCC website www.waynecc.edu/allied-health. Also, upon admission to the Pharmacy Technology Program, applicants must

- A. Submit verification of physical and emotional health on the Student Medical Form.
- B. Submit documentation of required immunizations.
- C. Complete criminal background checks and drug testing. Applicants should be aware that if a clinical site denies a student placement in its facility, the student will be unable to complete the required clinical component of the course. The student will be withdrawn from all PHM courses and will not be allowed to progress in the Pharmacy Technology Program.

Note: An applicant to a pharmacy technology program should be aware that a person who has been convicted of a felony or a drug or

pharmacy related misdemeanor may not be eligible for certification by the PTCB (Pharmacy Technician Certification Board).

Phlebotomy

The additional requirements for admission to the Phlebotomy Program are listed in the Application Policies and Procedures packets, and on the WCC website www.waynecc.edu/admissions/allied-health.

Also, upon admission to the Phlebotomy Program an applicant must

- A. Submit verification of physical and emotional health on the Student Medical Form.
- B. Submit documentation of required immunizations.
- C. Complete required criminal background checks and drug testing. Applicants should be aware that if a clinical site denies a student placement in their facility, the student will be unable to complete the required clinical component of the course. The student will be withdrawn from all PBT courses and will not be allowed to progress in the Phlebotomy Program.

Review of Applicants to Limited Admission Programs (Allied Health)

Applicants for the Allied Health programs will be reviewed in stages:

Qualified applicants for each program completing all requirements prior to the Application Deadline (refer to Admissions Policies and Procedures Packet for each program) will be considered for admission by the Limited Admissions Committee at their next scheduled meeting. Qualified applicants submitting applications after the initial date will be considered by the Limited Admissions Committee at their regularly scheduled meetings until such time that the applicable program is filled.

Waiting List (Allied Health)

Qualified applicants who are accepted after the program positions are filled will be placed on a waiting list. A minimum of fifteen persons will be listed in ranked order for the nursing and dental programs, and ten each for the Medical Assisting, Phlebotomy, and Pharmacy Technology programs. Applicants on a waiting list will be notified if a vacancy arises in the program of their choice for that year.

Qualified applicants applying after the programs are filled will be considered ONLY if the minimum number of persons on a waiting list has not been met.

Applicants on the waiting list for admission for the current academic year will not be automatically carried over to the following year(s). The applicant must REAPPLY to be considered for admission in the following year(s).

Limited Admissions Committee

The Limited Admissions Committee will review each completed application for a limited admission program and consider criteria including scores on placement and other tests, recommendation of the department chair, academic achievement, and such other factors as the committee may deem appropriate.

The Limited Admissions Committee will take one of the following actions on each application reviewed:

1. Recommend acceptance to the Director of Admissions and Records.
2. Recommend to the Director of Admissions and Records that the applicant be placed on a waiting list.
3. Defer recommendation to the next meeting of the Limited Admissions Committee.

4. Recommend to the Director of Admissions and Records that the applicant not be accepted.

If a student is not recommended for acceptance, he or she may appeal to the Director of Admissions and Records within 15 days of notification of the Limited Admissions Committee's action. The Director of Admissions and Records will arrange a meeting with the chairman of the Limited Admissions Committee to discuss the application and ranking of the applicant. If the applicant desires to continue the appeal, arrangements are made for a personal appearance by the applicant before the Limited Admissions Committee at the next meeting. Recommendations made as a result of such appeal shall be final.

Special Studies Students

A Special Studies classification is designed for students who want to enroll in courses without completing admissions requirements or declaring a major program of study. Special Studies students are usually permitted to accumulate fifteen (15) semester hours before fulfilling the regular admission requirements. Special Studies students must complete an application, a residence status form, and an interview with a counselor.

If a Special Studies student elects to enroll in a course for which there is a prerequisite, evidence of meeting the prerequisite is required. This evidence includes appropriate placement tests if the student elects to enroll in math, English, reading, computers or any other course requiring these as a prerequisite. Beginning college level courses (examples: English 111, Math 110, Psychology 150) requiring a prerequisite will have the prerequisite(s) waived if the Special Studies student has earned an associate level or higher degree. Special Studies students who have some college credit but no degree will need to have a completed transcript evaluation to determine appropriate prerequisite completion if they want to enroll in a course requiring prerequisites. Students will need to request official transcripts to be sent to the Office of Admissions and Records to verify degrees awarded or transfer credit. Special Studies students may also have a prerequisite waived if the department/division chair in the division in which the course is offered determines that the student has life experiences that supersede the prerequisite. Any waiver of a prerequisite must be accompanied by written approval from the appropriate department/division chair.

Provisional Admissions

A student applying to a curriculum program too late to complete pre-entrance requirements, may be admitted as a provisional student. In such a case, all pre-entrance requirements must be completed during the first semester of attendance. Prerequisites and co-requisites requirements must be met by all students.

Visiting Students

A visiting student is defined as one who has been admitted to or is currently enrolled at another college/university and wishes to take a course(s) at WCC. The student must complete an application, a residence status form, and an interview with a counselor. The student must also provide to the Office of Admissions and Records a written statement from a designee of the sending college/university indicating the specific term and course(s) the student should take. If the recommended course has a prerequisite, the written documentation from the sending institution will act as a waiver for the prerequisite.

Transfer Applicants

Transfer students may enter Wayne Community College upon meeting requirements as outlined in the Admissions Requirements and Procedures. Transfer students applying to a curriculum program must submit official transcripts from all previous colleges/universities. Credit will be allowed whenever possible.

Transfer of Credits

Educational work taken at a regionally accredited institution in which a grade of "C" or better was earned may be accepted in transfer.

Course work at institutions which are not regionally accredited is evaluated on the basis of the current issue of Report of Credit Given by Educational Institution published by the AACRAO and similar publications.

Transfer for credit courses are not used in the computation of the student's grade point average in the student's program at Wayne Community College.

Advanced Placement

A student who scores three or above on the Advanced Placement tests administered by the College Board will receive appropriate college credit and advanced placement. Students taking Advanced Placement tests should have the score reports sent to the Office of Admissions and Records for evaluation.

High School

Students entering Wayne Community College from Wayne County Public Schools may be awarded articulated placement credit as provided in an agreement between the College and the school system. Details concerning specific requirements are available from counselors at the high schools or the College.

College Level Examination Program

Credit may be allowed for up to 18 semester hours of college work based on appropriate scores on the CLEP General Examination. CLEP subject examinations are evaluated individually.

Servicemen's Opportunity Colleges

Wayne Community College has been designated as an institutional member of Servicemen's Opportunity Colleges (SOC), a group of over 1,900 colleges and universities providing voluntary postsecondary education to members of the military throughout the world. As an SOC member, Wayne Community College recognizes the unique nature of the military lifestyle and has committed itself to easing the transfer of relevant course credits, providing flexible academic residency requirements, and crediting learning from appropriate military training and experience. SOC functions in cooperation with 15 higher education associations, the Department of Defense, and Active and Reserve Components of the Military Services to expand and improve voluntary postsecondary education opportunities for service members.

Readmission

Students who have not enrolled for a period of five years or more must request readmission status through the Office of Admissions and Records. Students who have not been active for a period of two years will need to have a new or reassigned advisor. **Students who have been suspended for disciplinary reasons may request**

readmission after the term of suspension has expired. These students will be required to consult with the Director of Counseling Services and the Vice President for Academic and Student Services prior to registration.

The following items must be completed by the applicant for readmission to a curriculum program:

1. Application for readmission.
2. Residence status application.
3. Interview with counselor.
4. Transcripts (high school, new or updated colleges/universities).
5. Any other items currently required of new students that were not required of the applicant at his initial enrollment.

Applicants for readmission to limited admissions programs (Allied Health, BLET) must meet the current admissions requirements for the program.

Catalog of Record

A student who is in continuous attendance may graduate under the provisions of the catalog in effect on his date of entry or he has the option of choosing the requirements of a subsequently revised issue. A student who is not in continuous attendance must graduate under provisions of the catalog in effect on his last re-entry date, or a subsequent issue.

Foreign Student Policy

Wayne Community College is not approved for attendance of non-immigrant students with F, J, or M visas. Students with other visas will be reviewed by the Office of Admissions and Records on an individual basis.

All other inquiries regarding foreign student enrollment in curriculum courses should be directed to the Office of Admissions and Records at (919) 739-6720. Students wanting to enroll in continuing education courses should contact the Office of Continuing Education at (919) 739-6900.

Expenses

Tuition Per Semester

	In-State	Out-of-State
TUITION	\$1104.00	\$4176.00
ACTIVITY FEE	30.00	30.00
TECHNOLOGY FEE	16.00	16.00
TOTAL	\$1,150.00	\$4,222.00

Tuition for students taking fewer than 16 semester hours is \$69.00 per semester hour for in-state students and \$261.00 per semester hour for out-of-state students. Part-time students enrolled for six or more semester hours credit will be charged a \$30 student activity fee; \$16 technology fee; those enrolled for less than six semester hours will be charged a \$15 student activity fee and a \$8 technology fee. No student activity fee will be charged during the Summer Term.

Note: Tuition is set by State Policy and subject to change without notice.

Note: Fees are subject to change without notice.

Residence Classification for Tuition Purposes

Under North Carolina law, a person may qualify as a resident for tuition purposes in North Carolina, thereby being eligible for a tuition

rate lower than that for nonresidents. In essence, the controlling North Carolina Statute (G.S. 116-143.1) requires that "to qualify as a resident for tuition purposes, a person must have established legal residence (domicile) in North Carolina and maintained that legal residence for at least 12 months immediately prior to his or her classification as a resident for tuition purposes."

Payment of Fees

Payment dates are listed in the registration instructions published prior to each registration period.

A student who has an outstanding balance due to the College is not eligible for registration. This includes any outstanding balance at another institution of the community college system.

No student will be allowed to graduate or to receive a diploma, certificate, or transcript of his record, nor will any information concerning his record be forwarded to any other institution or person, so long as the delinquent account is outstanding.

Refunds

Tuition Refund Policy - Curriculum Students

In accordance with NCAC 2D.0202, a refund cannot be made except under the following circumstances:

- * A 100 percent refund shall be made if the student officially withdraws prior to first day of class(es) of the academic semester as noted in the college calendar. Also, a student is eligible for a 100 percent refund if the class in which the student is officially registered fails to "make" due to insufficient enrollment.
- * A 75 percent refund shall be made if the student officially withdraws from the class(es) prior to or on the official 10 percent point of the semester.
- * For classes beginning at times other than the first week (seven calendar days) of the semester, a 100 percent refund shall be made if the student officially withdraws from the class prior to the first class meeting. A 75 percent refund shall be made if the student officially withdraws from the class prior to or on the 10 percent point of the class.
- * A 100 percent refund shall be made if the student officially withdraws from a contact hour class prior to the first day of class(es) of the academic semester or if the college cancels the class. A 75 percent refund shall be made if the student officially withdraws from a contact hour class on or before the 10th calendar day of the class.

To comply with applicable federal regulations regarding refunds, federal regulations will supersede the state refund regulations stated in the rule.

Where a student, having paid the required tuition for a semester, dies during that semester (prior to or on the last day of examinations of the college the student was attending), all tuition and fees for that semester may be refunded to the estate of the deceased, (upon request) or to the Department of Education if the student was a Pell recipient.

Financial Aid Title IV Refund

If a student withdraws or reduces course load during the drop/add period of the semester, he/she may be required to pay all or a portion of all applicable tuition, fee and book charges. If a student completely withdraws or stops attending classes prior to the 60 percent point of the semester, he/she may be responsible for paying a portion or all of the unearned aid back to the school. This indebtedness is known as

an overpayment. Failure to repay a student financial aid overpayment may result in a hold being placed on the account. This hold prohibits registration for future classes and from obtaining an official college transcript.

Student Activity Fee Refund Policy-Curriculum Students

A 100 percent refund shall be made if the student officially withdraws prior to the first day of class(es) of the academic semester as noted in the college calendar. Also, a student is eligible for 100 percent refund if the class in which the student is officially registered fails to "make" due to insufficient enrollment.

Note: Tuition refunds and student activity refunds will not be considered for amounts of (\$5) or less, except when a course or curriculum fails to materialize; then all the students' tuition and fees shall be refunded.

Fees

Audit Fee - An audit fee of \$66.50 per semester hour for in-state students and \$258.50 per semester hour for out-of-state students must be paid except in the case of full-time (16 semester hours) students who may audit with no additional charge.

Credit by Examination - A fee for credit by examination of \$66.50 per semester hour for in-state students and \$258.50 per semester hour for out-of-state students must be paid except in the case of full-time (16 semester hours) students for whom there would be no additional charge.

Graduation - A graduation fee of \$20.00 for the first application and \$5.00 for each additional application must be paid per graduation year. Applicants for graduation must purchase their caps and gowns. These items must be purchased from the College bookstore by the published deadline.

Insurance - Student Accident Insurance is provided for every student enrolled in a curriculum program and is included in the student activity fee.

Textbooks and Supplies - Students must purchase textbooks and other necessary supplies. For their convenience, the College maintains a bookstore where these items may be purchased. The cost of these items varies according to the program of study taken by the student. Textbook information is available at www.wayneccbookstore.com.

Transcript Fee - Official transcripts will be prepared upon written request at a cost of \$2 (no checks accepted) per copy.

Allied Health Programs - Students admitted to an Allied Health program will have to complete certain additional requirements listed below as they pertain to the specific program.

Criminal Background Check (*includes Sex Offender Registry*):\$21.00*

Drug Screen: \$40.00

Estimated Health/Medical Requirements:

Physical Exam/Vaccinations \$120.00-\$270.00**

ATI Testing fee: \$483.00

Health Care Provider CPR certification: \$50.00-\$100.00

Uniforms: \$150.00-\$200.00

Medical Instruments/supplies: \$1,200.00

*Cost may be increased depending upon residencies in other states.

**Cost varies depending on health care provider/insurance carrier.

Licensure and Examination Fees - Several of the programs at Wayne Community College lead toward graduation in fields which require an examination or a series of examinations in order to work or practice. National and/or state certification of skills and competencies is important in obtaining employment. The trend in recent years is toward more examinations in more fields. The following information summarizes the current status of examination requirements.

Program	Approximate Examination(s)	Cost
Aviation	Oral and Practical Exams	\$475.00
	FAA Final Written Exams	\$180.00
Air Conditioning and Refrigeration	Refrigeration Exam	\$ 50.00
	Refrigerant Certification	\$ 25.00
Dental Assisting	Dental Assisting National Board	\$340.00
Dental Hygiene	Council of the National Board of Dental Examiners	\$265.00
	NC State Board Exams	\$170.00
	or CITA Board Exam	\$750.00
Practical Nursing	National Council Licensure Exam-PN	\$308.00
Associate Degree Nursing	National Council Licensure Exam-RN	\$308.00
Phlebotomy	American Society for Clinical Pathology PBT (ASCP)	\$100.00
Medical Assisting Assistants AAMA - CMA (graduating student)	American Association for Medical	\$95.00
Pharmacy Technology	PTCB Certification Exam	\$129.00

Financial Aid

The student financial aid program is designed to assist eligible students with educational expenses at Wayne Community College. WCC awards federal and state grants, scholarships, federal work-study and federal loans. Eligible students may receive one or more of these types of financial aid to assist with tuition, fees, books and other educational related expenses.

All students who have completed the Free Application for Federal Student Aid (FAFSA) are considered for all types of financial assistance without regard to the student's sex, race, color, disability

Applying for Financial Aid

1. Complete the Free Application for Federal Student Aid (FAFSA) online at www.fafsa.gov. Students can apply beginning January 1st. All students must re-apply for financial aid every year.
2. After the student applies he/she will receive a Student Aid Report (SAR). The SAR contains the information reported on the FAFSA including the Expected Family Contribution (EFC). The EFC is used to determine eligibility for federal student aid. The Financial Aid Office uses this information to award federal financial aid.

Dependency Status

A student will need to determine whose information to report on the FAFSA. An independent student will report income and asset information for self and spouse. A dependent student will report income and asset information for self and parents. **Not living with parents or not being claimed by them on tax forms does not determine dependency status for federal student aid.**

Awarding Process

Students are notified of financial aid award decisions for the academic year in a timely manner. To ensure prompt processing of the financial aid application, students must complete the FAFSA early and turn in all requested paperwork to the WCC Financial Aid Office by the stated deadline for each semester.

Financial Aid Available at WCC

Federal Pell Grant - A Federal Pell Grant normally does not have to be repaid. Federal Pell Grants are considered the foundation of federal student financial aid. The amount of a Federal Pell Grant awarded is based on the Expected Family Contribution (EFC), cost of attendance, enrollment status and whether the student attends school full-time or part-time and for a full academic year or less. A student may not receive Federal Pell Grant funds at more than one school at a time.

Federal Supplemental Educational Opportunity Grant (FSEOG) - A FSEOG is for undergraduates with exceptional financial need. Students with the lowest expected family contributions (EFC) receive priority. Limited assistance is available to eligible students from the program. This grant is gift aid and does not have to be repaid.

Federal Work Study - The federal work-study program provides part-time employment opportunities to eligible students enrolled at least half-time who wish to earn money while attending college. On average, students work approximately 15 hours per week and may earn up to \$3,000 per year. If a student is interested in the federal work-study program, they should indicate this interest when completing the FAFSA. A student should consider whether his or her academic responsibilities will permit him or her to assume the obligations of part-time employment.

William D. Ford Direct Loans Program for students - The College awards loans to eligible students enrolled in at least half-time. Student loans are borrowed money directly from the U.S. Department of Education that must be repaid with interest. Loans cannot be cancelled because you did not like the education you received, did not obtain employment in the field of study or if you are having financial difficulty. A student must complete the FAFSA to be considered for the Direct Loan program.

Direct PLUS for parents - This loan is for parents of dependent students enrolled in an eligible degree program at WCC. PLUS applicants must meet general eligibility requirements for federal student aid. PLUS applicants must agree to a credit check by the U.S. Department of Education. In addition, the PLUS applicant and student must (1) be a U.S. citizen or eligible non-citizen, (2) not be in default on a federal student loan and (3) not owe a refund on a federal education grant. The parent is responsible for repayment of the PLUS loan.

Vocational Rehabilitation - Many states offer educational assistance to students who have a significant disability. A North Carolina student should contact the Vocational Rehabilitation Division of the Department of Health and Human Services, Raleigh, NC, or in the student's local community. A student from another state should contact the local Vocational Rehabilitation Division in his/her State.

NC Education Lottery Scholarship - A North Carolina resident who files the FAFSA and demonstrates need may be eligible for these funds. Need based awards ranging from \$100 to \$2,800 may be awarded to eligible students in addition to the Federal Pell Grant.

NC Community Colleges Foundation Endowment for Teacher Preparation Scholarship Loan for Prospective Teachers

- A North Carolina student who plans a teaching career in the state may wish to apply for a Prospective Teachers' Scholarship Loan. The award is valued up to \$2,500 per semester for up to two consecutive semesters of full-time study. Recipients must reapply for a second year of funding. Each year's stipend may be canceled by a year of public school teaching in North Carolina. Information and an application from may be obtained from the Department of Public Instruction, Raleigh, NC or online at www.cfnc.org.

NC Health, Science and Mathematics Scholarship Loan Program

- A North Carolina resident student for tuition purposes accepted as a full-time student in an accredited program leading to a degree in a specified health, science, or mathematics related field may be considered for the NC Health, Science and Mathematics Scholarship Loan Program. Award recipients are chosen according to major, academic capabilities and financial need. Information and application may be obtained online at www.cfnc.org.

NC Community College Grant (NCCCG)

- A North Carolina resident who completes the FAFSA and demonstrates need may be eligible for this grant. Students not eligible for the Federal Pell Grant may be considered for the NCCCG based on their expected family contribution (EFC) as determined on the Student Aid Report (SAR). Eligible students must be a North Carolina resident enrolled at least six credit hours per semester in a curriculum program.

NC Targeted Assistance Program and NC Less Than Half-Time Funds

- This program provides limited need-based assistance to students enrolled in high demand/low enrollment programs or to eligible Vocational Rehabilitation students. To be considered for these funds, students must complete the FAFSA and meet the requirements to receive a Pell Grant, be a NC resident, and be enrolled in an approved program for a minimum of six credit hours per semester.

Veterans' Affairs - Wayne Community College is providing training under Public Law 358, G.I. Bill effective June 1966; Public Law 634, the children of deceased or disabled veterans; and Public Law 894, disabled veterans and Public Law 98-525, New G.I. Bill enacted October 1984 and under the Post 9/11 Veterans Education Assistance Act of 2008. Post 9/11 veterans and service members may be eligible for the new education benefits package to include tuition and fees, a monthly housing allowance and a yearly stipend for books and supplies. Applicants interested in any of the VA educational benefits may contact the WCC Veterans Affairs Coordinator. Information is also available online at www.gibill.va.gov or by calling 1-888-GI-BILL (1-888-442-4551).

American Opportunity, Hope and Lifetime Learning Tax Credits

- These income tax credits may reduce a family's federal taxes. They are based on the student's qualified educational expenses, minus grants, scholarships, and other tax-free educational assistance. The American Opportunity Tax Credit (AOC) is a new credit that replaces the Hope Credit for most taxpayers. The AOC can be claimed for the first four years of post-secondary education up to a maximum of \$2,500 per eligible student. The AOC is not available to single filers with a modified adjusted income greater than \$90,000 or joint filers with a modified adjusted income greater than \$180,000. The Hope Credit is a non-refundable credit that normally applies to 2008 and earlier tax years. This credit is available only during the first two years of college up to a maximum of \$1,800 for single filers with a modified adjusted

gross income less than \$60,000 or joint filers with a modified adjusted gross income under \$120,000. The Lifetime Learning Tax Credit is available for any level of post secondary study up to a current maximum credit of \$2,000 per return. The credit is not available to single filers with a modified adjusted gross income greater than \$60,000 or joint filers with adjusted gross incomes greater than \$120,000. Taxpayers who file "married filing separately" are not eligible to take the American Opportunity, Hope, or Lifetime Learning credit. Also note that only one type of credit (American Opportunity, Hope, or Lifetime Learning) may be claimed for the student in any given year. For more information on this credit and other educational tax credits, visit the IRS website at www.irs.gov or contact a tax professional.

Other Sources of Assistance

Workforce Investment Act (WIA) System - Wayne Community College offers training under the WIA system. The program is especially designed for individuals who require skill training in order to obtain employment. All individuals enrolled in the WIA program must qualify under program guidelines.

Services offered through the WIA Adult and Dislocated Worker Program

Core Services - Includes outreach, job search and placement assistance, and labor market information available to all job seekers

Intensive Services - Includes more comprehensive assessments, development of individual employment plans and counseling and career planning

Training Services - Customers are linked to job opportunities in their communities, including both occupational training and training in basic skills. Participants use an "individual training account" to select an appropriate training program from a qualified training provider

Applicants should contact the WIA office, located at the Wayne County JobLink/Employment Security Commission (ESC) or by phone 919-731-7950 for information about applications and/or assessment. The Wayne County office of the JobLink/ESC is located at 2006 Wayne Memorial Drive, Goldsboro, NC 27534.

Financial Aid Scholarships - Many churches, alumni groups, and other civic organizations have scholarship funds eligible for students. Additionally, the Financial Aid Office frequently notifies students of scholarships available through outside sources. A complete list of Financial Aid scholarships can be found at www.waynecc.edu/financial-aid-and-scholarships/.

The Foundation of Wayne Community College, Inc.

The Foundation of Wayne Community College, Inc. is a non-profit corporation organized under the North Carolina and Federal Laws in compliance with Section 501(c)(3) of the Internal Revenue Code.

Foundation Scholarships - Most WCC Foundation scholarships are funded through endowments and annual contributions donated by individuals, civic clubs and private business. The full listing of Foundation scholarships can be found by going to our web page: www.waynecc.edu/foundation then click "Opportunities for Giving" on the left side of the page and then click "View WCC Scholarships". Download the scholarship application and scholarship guideline can be found online at www.waynecc.edu/foundation/scholarships/ Inquiries concerning the Foundation of Wayne Community College, Inc. can be made by writing

or calling:

The Foundation of Wayne Community College, Inc.

P.O. Box 8002, Goldsboro, N.C. 27533-8002

919-739-7006 or 919-739-7007 • Dogwood, 102 and 103

Vehicle Registration

All vehicles driven on the College campus must be registered and have a valid parking permit properly displayed. Any violation of College traffic rules and regulations may result in a fine. The towing law is enforced on campus. Students should refer to the Student Handbook for current campus parking and traffic policies.

Counseling Services

Counselors are available to assist students with academic and personal concerns and to facilitate educational planning, career planning and future planning. General academic information, counseling services for students with disabilities, short-term clinical services, assistance with the Allied Health limited admission process, and placement testing are services provided.

Student Life

Housing

The College does not have dormitory facilities. Students wishing to live away from home must arrange their own living accommodations, and the College does not assume responsibility for the supervision of such housing.



Social and Cultural Activities

Wayne Community College is interested in developing all students to their potential. The college strives to offer the utmost in academics as well as social and cultural activities to build a well-rounded person. Lectures, cookouts and various exhibits are held periodically during the year.

Student Clubs and Organizations

Wayne Community College offers a wide range of student clubs and organizations for the social and academic development of the students. All clubs and organizations are formed through and under the direction of the Student Government Association. Refer to the WCC student handbook for more information and a list of active student clubs and organizations.

Student Government Association

The Student Government Association was organized in the fall of 1963. The purpose of this organization is to promote in each student a personal sense of pride and responsibility in the College and to accept his/her democratic responsibilities as an American citizen.

The Student Government Association shall serve as the official

organization conducting the affairs of its members. All students who pay activity fees are members of the Student Government Association. The Student Government Association shall provide forums for students to engage in out-of-class student development activities and shall serve as direct liaison to the administration of the college.

Wayne Community College encourages students to participate in the institution's decision making process. Students are encouraged to participate in the Student Government Association through which the president serves as a non-voting member of the WCC Board of Trustees. In addition, there are several institutional committees where student input is needed and volunteers are sought. Students interested in serving should contact the Student Activities Coordinator.

Dr. Clyde A. Erwin, Jr. Library

The Dr. Clyde A. Erwin, Jr. Library provides resources to assist students, faculty, and staff in their research and actively supports the College mission by the ongoing development of a print, AV, and electronic collection devoted to enhancing the curriculum. Library services are offered to traditional students and distance learners, as well as to the general public of Wayne County.

Offerings of the Library include the following:

- Over 30,000 reference and circulating print materials
- Over 16,000 videos (DVD and streaming)
- More than 90 print magazines and journals
- 18 computers for research and homework
- One computer to search the online library catalog
- Access to NCLIVE, and 17 other online resources research databases through WCC Single Search
- Tours and information literacy sessions
- Reference and research assistance

Hours of operation are:

Monday through Thursday - 7:45 a.m. to 8:00 p.m.

Friday - 7:45 a.m. to 1:00 p.m.

(Hours may vary during Summer Term.)

The Clyde A. Erwin, Jr. Library is located on the third floor of the Wayne Learning Center building. For more information, call (919) 739-6891 or visit online at the library website: www.waynecc.edu/library.

Students With Disabilities

Wayne Community College is committed to seeing that students with disabilities have equal access to all programs of study. In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act, students will receive reasonable accommodations to assure equal access to all services, programs and activities. Students with disabilities should contact the Disability Services Counselor in Counseling Services and present documentation of the disability. Accommodations will be determined by the documentation and in consultation with the student. **Students needing accommodations should make arrangements with the Disability Services Counselor as soon as the need becomes known in order to provide ample time for arrangements to be made. Call (919) 739-6729 or TTY (919) 583-8544.**

Wayne Community College has adopted an internal grievance procedure providing for prompt and equitable resolution of complaints that arise from any action prohibited by the Americans with Disabilities Act. Students with complaints should contact the Disability Service Counselor.

Academic Regulations

Semester System

Wayne Community College operates on the semester system. The Fall and Spring Semesters are each sixteen weeks in length and the Summer Term is approximately 10 weeks in length. Classes normally meet hourly for fifty minutes with a ten-minute break between classes. The number of times that a class meets each week is determined by the number of semester hours credit and the lab or clinic hours required by a course.

Semester hours credit is awarded as follows: one semester hour of credit for each hour per week of class lecture, one semester hour of credit for each two or three hours per week of laboratory work, one semester hour of credit for each three hours of clinical per week, and one semester hour of credit for each ten hours of work experience.

Registration

All students are required to register at the beginning of each semester of attendance. No credit can be granted for courses in which the student is not properly registered. Students attending class for which they are not officially registered will receive neither grade nor semester hour credit for the course. Classes missed due to late registration will be counted as absences. Registration instructions are published prior to each registration period.

Change of Schedule

The last day that courses may be added each semester is stated on the College calendar. Any student wishing to drop a course must complete the drop procedure on or before the 51st day of the semester or the 29th day for the Summer Term. For eight week courses, refer to the appropriate semester Registration Information or contact the Office of Admissions and Records. If additional tuition and fees are owed, all schedule changes must be officially processed the Business Office.

Student Course Load

The normal student course load is 15-17 semester hours. A student must register for 12 semester hours to be considered a full-time student. The maximum course load is 20 semester hours. The permission of the Advisor must be obtained in those cases where more than 20 semester hours are scheduled unless specified by the curriculum.

It is strongly recommended that full-time students who have part-time employment not work more than 10-15 hours per week. Students who are working more than 20 hours per week should consider attending the College on a part-time basis.

Classification

A student is classified as a freshman from initial enrollment until 32 semester hours credit has been earned. Students who have earned 32 semester hours or more are classified as sophomores.

Student Attendance Policy

Wayne Community College expects students to gain skills, competencies and an awareness of a workplace ethic which emphasizes responsibility and commitment.

The College believes that when students attend class regularly they are demonstrating responsibility and commitment to their education. Students must attend 80 percent of the total class hours to receive a passing grade. Students must attend the class during the first ten

percent (10 percent) of the class to be considered enrolled in the class. Pre-curriculum students must attend 90 percent of the total class hours and must attend during the first 10 percent of the class. Instructors will not excuse absences under this policy. Absences due to late registration are counted as regular absences.

If a student is in excellent academic standing, instructors may adjust the attendance procedures. Instructors expect students to make up missed work, but students cannot make up absences.

If a student drops, withdraws, or stops attending a class, he or she will receive a grade of "OW", "W", "WP", or "WF".

Programs in Allied Health, Aviation, BLET, Cosmetology, High School, and courses leading to credentials have stricter attendance procedures than that stated here.

Each department has the right to set a reasonable policy regarding tardiness to class with the approval of the Vice President for Academic and Student Services.

Students may completely withdraw from the college at any time prior to exams and all grades will become "OW"s. Students withdrawing from the college should contact the Office of Admissions and Records for the appropriate forms and procedure for official withdrawal.

Excused Absence Procedure

Wayne Community College students are allowed two (2) excused class days per academic year, including religious observances required by the faith of the student. For the purposes of this procedure, an academic year begins on the first day of fall term classes and ends on the last day of spring term classes each year. Student shall be given the opportunity to make up any tests or other work missed due to an excused absence.

1. Students requesting absence from class **must** complete a *Request for Excused Absence Form*.
2. Have it signed by the Instructor(s).
3. Submit it to the Admissions and Records Office for approval within the first seven school days of the term.

Failure to submit the completed form by the deadline will result in the request being denied. The Admissions and Records Office will provide the student with a copy of the approved/denied form. Students should keep the copy for their records.

Closure of the College Due to Adverse Weather and Other Conditions

When inclement weather threatens, the President of the College or her designee will make any necessary decisions to cancel classes, delay classes, or totally close the College and all its operations. The decision will be announced on campus e-mail/communication systems, area radio and television stations, and the college website. Every attempt will be made to have the announcement published by 6:00 a.m. on the day of the closing or delay. If the College is already operating when inclement weather forces such a decision, college-wide e-mail and text message via Cruiser Alert will be used, as well as other campus communications and public media, to announce the decision.

Decisions regarding closings and delays will be made on a day-to-day basis, taking into consideration local conditions, as well as weather forecasts. Often, decisions about evening classes are made independently. In those cases, every attempt is made to announce decisions by 3:30 p.m. If the main campus is closed, all off-campus sites are closed with the possible exception of SJAFB and WCC Child Care Center. Status for SJAFB classes will be determined in conjunction with the Base Education Office.

If classes are delayed, the announcement will state the time the College will open. In times of inclement weather, radio and television stations will normally only make announcements about delays or

cancellations. Therefore, the absence of an announcement means that the College is operating on a normal schedule.

Course content missed due to the College Closing will be made up through outside assignments or rescheduled classes and will be communicated to students electronically or when classes resume. Make-up assignments must be equivalent to the material that would have been covered during the missed class(es) and must be approved by the appropriate instructional supervisor. For classes where contact hours are critical (such as BLET, nursing clinical, etc.), make-up classes will be scheduled at the convenience of the students and instructor. Class make-up plans must be documented on the Inclement Weather Make-up Plan and attached to the final class roster, which is retained in the departmental offices.

Grading System and Grade Point Average

The 4.00 grade point system is used to calculate student grade point average.

The letter grades used are as follows:

- A - outstanding-4 grade points per semester hour.
- AH - outstanding-4 grade points per semester hour. (Honors)
- B - above average-3 grade points per semester hour.
- BH - above average-3 grade points per semester hour. (Honors)
- C - average-2 grade points per semester hour.
- D - poor-1 grade point per semester hour.
- F - failing-no grade points earned.
- * I - incomplete-no grade or grade points because of incomplete work. An "I" will be removed from the transcript when departmental requirements as listed within the contract are completed. Any grade of "I" will be changed to "F" if not removed by the maximum time limit of two semesters.
- * M - mid-term warning notice.
- * P - passing.
- * AU - audit-no grade or grade points.
- * X - credit by examination
- * OW - denotes official withdrawal from the course during the school term. "OW" indicates that the student will receive no grade and no credit for the course. The student must officially withdraw from a course to receive an "OW".
- R - Reenroll
- * W - denotes withdrawal from the course during the school term. "W" indicates that the student will receive no grade and no credit for the course.
- * WP - Withdrawal passing - Withdrawal (passing) the end of the drop period (effective Fall Semester 2010) - no grade or grade points.
- * WF - Withdrawal failing - withdrawal (failing) after the end of the drop period. (effective Fall Semester 2010) Prior to Fall Semester 2010 - unofficial withdrawal after the end of the drop period - no grade or grade points. WF is calculated in GPA as an F.
- * NA - never attended - no grade or grade points
- * ND - Academic Forgiveness for D
- * NF - Academic Forgiveness for F
- * NG - no grade
- * NWF - Academic Forgiveness for WF.
- * Not included in computing grade point average.

The grade point average is calculated by dividing the total number of grade points earned by the total number of semester hours attempted, including both courses passed and failed. Effective Fall Semester 2002, when a course is taken more than once, only the highest grade will be included in calculating the GPA. Prior to Fall Semester 2002, all grades were included in calculating the GPA. All courses attempted will be shown on the official transcript.

A "C" average in the major is required for graduation. A "C" average on the 4.00 grade point system is a 2.00 grade point average.

Grade Reports

Midterm grades are posted on CampusCruiser at mid-term for students who are failing or in danger of failing. Final semester grades are posted on CampusCruiser as soon as they are processed at the end of each semester.

Grade Appeal Process

A student has the right to appeal a course grade when he/she believes that his/her performance in a course has been incorrectly evaluated by the instructor. Any such appeal should be initiated no later than two business weeks following the completion of the course.

The first level of appeal, in all cases, should be to the instructor involved. Only if the issue cannot be resolved between the instructor and student should further appeals be made.

In that case, a student should make his/her appeal in writing to the appropriate Department Chair and should clearly set forth the basis for the student's belief that the evaluation is incorrect. The Department Chair will work with the instructor and, where appropriate, with the Division Chair to review the student's appeal. The Department Chair, with the Division Chair's input, will make a response to the student within one business week of the date of appeal.

If the student is not satisfied with the Department and Division Chairs' decision, the student has the right to appeal that decision in writing for review by the Vice President for Academic and Student Services. The Vice President may communicate with the student, instructor, Department Chair and appropriate Division Chair, in order to understand the basis for appeal. If deemed necessary, the Vice President may appoint a peer review committee of curriculum faculty to act in an advisory capacity.

At the completion of this review and within one business week of the student's appeal (to the Vice President), the Vice President for Academic and Student Services will make a decision and convey that decision to the student, instructor, Department Chair, and Division Chair involved. The decision of the Vice President for Academic and Student Services is final.

Academic Progress

Students are expected to show successful academic progress by maintaining a GPA of 2.0 while enrolled at Wayne Community College. The college will identify students that fall below the minimum 2.0 GPA to provide them additional guidance as needed to achieve that success. Students that do not meet this standard will be required to adhere to the following guidelines until the minimum GPA of 2.0 is obtained.

Academic Early Alert - When student performance is deemed unsatisfactory by the instructor prior to midterm (by the fourth week), that instructor will issue an early alert. The intent of the early alert is to notify students of poor academic performance and to jointly develop a plan of action for improvement. Early alert decisions may be made based on attendance, class work, homework, test grades, etc.

Academic Midterm - A student receiving a midterm (M) indicating unsatisfactory performance will receive an official notification and will be notified by his/her instructor and/or advisor concerning an advisory warning for academic progress. With the support of the records office, a list of students receiving midterms will be available to advisors.

Academic Warning - Any student receiving a GPA below 2.0 at the end of a semester will receive notification of an academic warning. The student will be required to meet with his/her advisor before he/

she can register for classes and should discuss their academic needs.

When the GPA does improve, the student will be placed back in good standing.

Academic Progress for Financial Aid Purposes - For students receiving financial aid, academic records are reviewed at the end of each semester. A student is expected to maintain the required cumulative grade point average of 2.0 in order to receive and/or maintain eligibility for financial aid. A student must pass a minimum of 67 percent of all credit hours attempted at the end of each semester and may not exceed the 150 percent maximum time frame required to complete the eligible degree, diploma or certificate program.

Effective July 1, 2011, all students receiving financial assistance are granted a one semester or term warning period in order to make and/or maintain satisfactory progress. During the warning period, the student may continue to receive financial aid based on eligibility. If, at the end of the warning period, the student re-establishes satisfactory progress for financial aid purposes, then the warning status is lifted and the student is making satisfactory progress.

A student who fails to meet satisfactory requirements following the one warning semester may be ineligible for financial aid at WCC. A student whose financial aid has been suspended may attend the following semester(s) or terms without the benefit of financial aid in order to make up the grade point average and/or hours deficiencies.

Appeal for Financial Aid Purposes - A student who has become ineligible for financial aid has the right to appeal. The appeal must be submitted in writing along with supporting documentation to the Financial Aid Office Appeal Committee. An appeal may be considered based on circumstances involving but not limited to an extended illness or hospitalization of the student, an accident that incapacitates the student for an extended period of time or death or extended illness of an immediate family member resulting in significant responsibilities for the student.

A student whose appeal is approved may continue to receive financial aid for the term. The student is notified that he/she is being placed on probation for the term.

At the end of the term in which the student is on probation, he/she is expected to be making satisfactory academic progress or be successfully following an academic plan designed to make sure the student will be able to meet satisfactory standards by a specific point in time.

Grade Forgiveness Policy

Students may submit a written request to the Vice President for Academic and Student Services to have grades earned at Wayne Community College, which are at least five years old, forgiven. Under this procedure, the student may request that previous grades of "D", "WF", or "F" not be used in calculating the grade point average. A record of all past work will remain in the student's permanent file; however, the course grades that are forgiven will be prefixed with an "N", and the grade and credit hours will not be calculated in the student's grade point average.

To be eligible for grade forgiveness, students must be currently enrolled and have completed a minimum of 12 semester hours of required courses in the chosen program of study within the past year, while maintaining an overall grade-point average of 2.0 or above, with no grade lower than a "C".

The written request must include the following information:

1. The course grades for which forgiven is being requested

2. The reason(s) the request is being made
3. Name, address, and student identification number of the person making the request
4. Copy of the current student transcript

If the request for grade forgiveness is approved by the Vice President, a new transcript will be mailed to the student by the Director of Admissions and Records. If the student transfers to another institution, the grade forgiveness will be voided, and his/her transcript will list all records of courses, including those that were excluded by grade forgiveness.

Recipients of federal financial aid or veteran's benefits are not eligible for this forgiveness policy under federal guidelines and regulations. The student should contact the Financial Aid Office or the Office of Veterans Affairs for information.

Credit by Examination

Credit by examination may be allowed for a given course if a regularly enrolled student can demonstrate the required level of proficiency ("C" or better) as a result of independent study and experience. This credit will be based on a departmental examination under the direction of the department chair in which the course is offered. Credit hours will count toward graduation; they will not be computed in grade point average as grades and grade points will not be recorded. Application for credit by examination must be processed in the Office of Admissions and Records. A fee of \$66.50 per semester hour for in-state students and \$258.50 per semester hour for out-of-state students must be paid except in case of full-time students taking 16 or more hours for whom there would be no additional charge. Exams may be scheduled at the discretion of the Department Chair involved. Credit by exam excludes a student from Academic honors such as the President's List or Dean's List.

Change of Program

Students wishing to change their program of study should contact Counseling Services. To change programs, students must be currently enrolled (excluding summer), and students can make only one change per semester. The program change will become effective the next semester the student is enrolled.

Auditing Policy

Classes may be audited with permission of the instructor if space is available. Priority will be given to regular credit students. Participation in class discussions and examinations is at the option of the instructor. Attendance is required as if the course is taken for credit. No credit by examination can be allowed for courses that have been audited. A grade of "AU" will be recorded with no hours credit or grade points. A fee of \$66.50 per semester hour for in-state students and \$258.50 per semester hour for out-of-state students must be paid except in case of full-time students taking 16 or more hours who may audit with no additional charge.

Graduation Requirements

The following requirements apply to all programs; however, some departments may have additional requirements.

1. All required and elective courses must be completed as prescribed in the catalog of record of the candidate for graduation.
2. A major 2.0 grade point average must be maintained.

3. Minimum reading requirements must be completed for each program. A minimum of RED 080 is required for certificate and diploma programs. RED 090 is required for a few certificate and diploma programs and for all degree programs. Depending on the student's program, this requirement must be met either by satisfactory placement scores or by completing RED 080 or RED 090. In instances where students receive transfer credit for ENG 111, its equivalent, or a course that has RED 090 as a prerequisite, the reading requirement will be satisfied.
4. All financial obligations to the College must be cleared.
5. A minimum of 25 percent of semester hours in residence with a minimum of nine semester hours in the major area is required for graduation. Upon recommendation of appropriate faculty and the division chair, the Vice President for Academic and Student Services may waive the requirement of a minimum of nine semester hours in the major area.
6. Application for graduation must be received by the posted deadline. **NOTE:** The application cannot be processed during registration periods. Request for duplicate diplomas should be made to the Office of Admissions and Records. A graduation fee of \$20.00 for the first application and \$5.00 for each additional application must be paid per graduation year. Applicants for graduation must purchase their caps and gowns. Back dated diplomas will be prepared at a cost of \$20.00. Two weeks should be allowed for processing. Upon recommendation of the Department Chair and approval of the Vice President for Academic and Student Services, certain specific graduation requirements may be waived.

Students graduating from a diploma or associate degree program with a 3.5 cumulative grade point average will graduate with Honors. Grade point averages will not be rounded. For more information, contact the Office of Admissions and Records.

Withdrawals

Students withdrawing from the College should contact the Office of Admissions and Records for the appropriate forms and procedures for official withdrawal. A student who fails to officially withdraw will receive a "WF" or "WP" in each course for which he or she was registered unless the unexcused absence policy is exceeded prior to the last day of the drop period.

Students' Rights and Privacy

Wayne Community College supports the rights and privacies afforded each student by the Family Educational Rights and Privacy Act of 1974 and is in compliance with its provisions.

The statute governs access to records maintained by certain educational institutions and the release of such records. In brief, the statute provides to students:

- the right to inspect and review his/her education records with 45 days after receipt of the request for access the right to request the amendment of education records that the student believes is inaccurate, misleading, or otherwise in violation of his/her privacy rights under FERPA
- the right to file a complaint with the U. S. Department of Education concerning alleged failures to comply with requirements of the right to provide written consent before the school releases personally identifiable information from student's education records with the exception of:

- A. directory information (directory information is defined as the student's name, major field of study, full-time/part-time enrollment, dates of attendance, and degrees and awards received.)

Note: Any student who does not wish the College to release any or all information designated as directory information without the student's written consent must notify the Office of Admissions and Records (Wayne Learning Center, Room 109) immediately. Requests for non-disclosure must be filed annually. The College assumes that the student's failure to file a request for non-disclosure indicates approval for disclosure

- B. school officials, including teachers within the educational institution or local educational agency who have been determined to have legitimate educational interests;
- C. officials of other schools or school systems in which the student seeks or intends to enroll, upon condition that the student be notified of the transfer, receive a copy of the record if record is desired, and have an opportunity to challenge the content of the record;
- D. authorized representatives of U. S. Comptroller General, the U. S. Secretary of Education, or State and local educational authorities;
- E. in connection with a student's application for, or receipt of, financial aid;
- F. state and local officials or authorities to which such information is specifically allowed to be reported or disclosed by a State statute that concerns the juvenile justice system and the system's ability to effectively serve, prior to adjudication, the student whose records were released;
- G. organizations conducting studies for, or on behalf of, educational agencies or institutions for the purpose of developing, validating, or administering predictive tests, administering student aid programs, and improving instruction, if such studies are conducted in such a manner as will not permit the personal identification of students and their parents by persons other than representatives of such organizations and such information will be destroyed when no longer needed for the purpose for which it is conducted;
- H. accrediting organizations in order to carry out their accrediting functions;
- I. parents of an eligible student if the student is a dependent for IRS tax purposes;
- J. in compliance with judicial order, or pursuant to any lawfully issued subpoena, upon condition that students are notified of all such orders or subpoenas in advance of the compliance therewith by the educational institution.
- K. appropriate officials in connection with a health or safety emergency;
- L. information designated as "directory information"

Student records academic transcript of the College, post-secondary transcripts, high school transcripts, and other documents maintained as part of the student's permanent file are maintained in the Office of Admissions and Records. Any student wishing to challenge the content of his educational records that are maintained in this office should notify the Director of Admissions and Records in writing.

Course Repetition Policy

Any course may be repeated. No course may be counted more than once in calculating the total number of semester hours credit towards graduation. Any required course in which an "F" or other unacceptable grade is received must be repeated. In those cases where a course in which the student receives an "F" is not offered during the remainder of that student's residence, an equivalent course may be substituted for purposes of meeting program requirements upon recommendation of the appropriate department chair and the Vice President for Academic and Student Services.

A student who has passed a curriculum course three times must receive permission from the Vice President for Academic and Student Services before the student is allowed to register for the class another time.

Courses Substitution

Students are expected to follow the curriculum as shown in the catalog for their chosen program. Substitutions may be made when it is educationally sound and is determined to be in the best interest of the student's educational and career objectives. Course substitutions must meet the following criteria: No non-college transfer course, either individually or in combination with another course, may be substituted for a college transfer course and in order for one course to be substituted for another: there must be a clear relationship between the two courses. Substitutions must be recommended by the Department Chair and approved by the Division Chair.

Minimum Class Size Policy

The decision to offer a class and to establish minimum class size will be made by the Department Chair and the Division Chair with the approval of the Vice President for Academic and Student Services. Criteria for determining minimum class size will be on a class-by-class basis and based on the subject matter of the course, the need for the course, the impact on the institution including resources, and the students enrolled.

Independent Study Policy

Independent study is a class offered without any regularly scheduled conventional classroom or lab sessions. Independent study is to be used only under extenuating circumstances. All classes scheduled as independent study will be approved by the program Division Chair. All independent study classes must be required or elective courses in the student's program of study. The classes will be scheduled with the faculty member for the course. During the term the faculty member will meet with the student either by mail, telephone, e-mail or personally to discuss/assess the student's progress towards meeting the course competencies and objectives and for conducting the course evaluation processes. Course content, standards of progress, tuition and fee charges, and all other provisions heretofore presented will apply to independent study courses.

In addition to the above, the following requirements apply to students receiving Department of Veteran Affairs (DVA) benefits and/or financial aid:

- Student must meet with the Wayne Community College DVA Coordinator/Financial Aid Officer.
- Student must have completed 15 semester hours of course work at Wayne Community College in the current major with a grade point average of 2.0 or better.

- Student must have completed remedial work as determined by the admissions requirement in the current major.

Prerequisites

Prerequisites are requirements that must be met before students can enroll in a specific course. This prerequisite may be a class that is required before registering for the next level, or it may refer to placement test scores that are required before registering.

Students must comply with catalog requirements. Courses may not be taken until all prerequisites have been met. There are occasions in which exceptions to this regulation may be deemed desirable and necessary. The appropriate Department/Division Chair of the division in which the course is offered must approve such exceptions in writing.

Exceptions to the course prerequisite are the following:

- Developmental prerequisites may be fulfilled by an appropriate placement test score;
- Visiting students who have written documentation from their college/university to enroll in a specified course that has a prerequisite;
- Students with an associate or higher level degree who enroll in beginning college level courses (e.g. ENG 111; PSY 150);
- Students who have life experiences that are deemed equivalent to or supersede the prerequisite; a **reserved** review of course level outcomes would occur and be maintained in the student's records;
- Students who successfully transfer in a course that has a prerequisite would not have to take the prerequisite (**example, a student transferring in PSY 150 with the local prerequisite of RED 090 would not have to take RED 090**).
- Credit by exam may be used to meet prerequisite requirements.

Co-requisites

Co-requisite courses are courses that must be taken at the same time. An example of co-requisite includes lecture and lab courses such as ENG 090 Composition Strategies and ENG 090A Comp Strategies Lab. All lecture and lab courses must be taken together during the same term.

Transcripts Request and Fees

An official transcript of work at Wayne Community College will be sent to the appropriate institution upon written request by the student. Wayne Community College requires a written request 24 hours prior to release of a transcript. Transcripts will be prepared at a cost of \$2 per copy (No checks accepted). No transcript will be released until the student's account is cleared with the Business Office.

Cooperative Education Program

Cooperative Education (Co-op) is designed to give students enrolled in many curriculum programs within the College a chance to work on a job, **which must be related to their major**, while completing their degrees. Co-op students work from one to three semesters, depending on the curriculum program, in a part-time or full-time job, which can either be a paid or a volunteer position, with employers approved by the Co-op Instructor Coordinator. Academic credit is given for the learning gained during the Co-op work period. Students are contacted periodically by their Co-op Instructor Coordinator and receive on-the-job supervision by the employer.



Eligibility

Students who are enrolled in approved Co-op programs for academic credit and who have completed nine semester hours at the College are eligible to Co-op if they meet the following conditions:

1. academic standing of 2.000+ GPA
2. approval from Co-office office
3. approval of Co-op Instructor Coordinator

Certain curriculum programs may specify additional conditions.

Application and Registration Procedures

Interested students should see their advisor to register for Co-op. The student must attend the a mandatory Co-op orientation at the beginning of each semester. Co-op workbooks will be distributed, a detailed explanation on how to complete the workbook will be given, and an overview of Co-op regulations and criteria will be given during orientation. Open enrollment for Co-op allows the student to enter Co-op after the initial 10 percent period of the semester. Students need to apply for open enrollment at the Co-op office.

Academic Credit

Credit hours for Cooperative Education are determined by the total number of hours a student works during the semester. The breakdown of credit hours to hours worked on the Co-op job is as follows:

- 1 Semester Credit Hour = 160 Hours Worked
- 2 Semester Credit Hours = 320 Hours Worked

Programs of Study with Co-Op

The following programs of study have either mandatory or elective Co-op:

Accounting
 Agribusiness Technology
 Applied Animal Science Technology
 Automotive Systems Technology (GM-ASEP)
 Automotive Systems Technology (ATEP)
 Business Administration
 Collision Repair an Refinishing
 Computer Information Technology
 Computer-Integrated Machining
 Electronic Engineering Technology
 Healthcare Management Technology
 Human Services Technology
 Medical Office

Networking Technology
Office Administration
School Age Education
Simulation and Game Development
Sustainable Agriculture
Turfgrass Management Technology

Cooperative Programs/Career and College Promise (Dual Enrollment)

Career and College Promise provides seamless dual enrollment educational opportunities for eligible North Carolina high school students in order to accelerate completion of college certificates, diplomas, and associate degrees that lead to college transfer or provide entry-level job skills.

Dual enrollment is designed for high school juniors and seniors who attend public, private or non-public schools in Wayne County area; and who are at least 16 years of age. Eligible students may select the College Transfer Pathway or the Career Technical Education Pathway. Students who are enrolled in the Early College High School or School of Engineering have different eligibility requirements.

Students dual enrolled earn college credit by attending college level classes. The transfer of college credit for high school credit is determined by the individual high school. Depending on the high school schedule, students must be enrolled in at least one high school courses, excluding the summer term.

The cost of tuition is waived for dual enrolled students enrolling in curriculum courses. However, students are responsible to pay the Student Activity Fee, Technology Fee, and purchase textbooks and supplies.

Students may be admitted on a space available basis into college level courses, providing the following avenues have been satisfactory met: admission requirements, placement test scores or approved diagnostic assessment tests, and course prerequisites.

Dual enrolled students are required to take the College's Placement Test, which evaluates skills in English; reading; and math, or meet approved diagnostic assessment test scores in order to determine student's eligibility to enroll in college credit courses. Students are not permitted to enroll in pre-curriculum courses or courses in the following limited admission programs: Associate Degree Nursing,



Practical Nursing, Dental Assisting, Dental Hygiene, Medical Assisting, or Phlebotomy.

Seymour Johnson Air Force Base Registration Information

EFFECTIVE 12/19/2011 - Due to heightened security at Seymour Johnson Air Force Base, it has become necessary for students desiring to take classes with WCC at the base to apply for a Base Pass. Students should follow the steps below to apply for security clearance. The **COLLEGE STUDENT BACKGROUND SECURITY CHECK FORM** is required each term. Students do not pay a fee for the background check.

The clearance process takes three working days from the day the form is received. Students must have completed this process BEFORE the start of a term. Deadlines for application change each term. Passes will be issued ONLY within two days of the start of the class. Please call (919) 739-6765 for application deadlines or additional information.

PLEASE NOTE: SJAFB personnel will run a criminal background check which will be used to determine if a student is able to access the base for classes or not. The base reserves the right to refuse access to students based on information obtained from this background check. If you would like more information on what this check includes please call, Pass and ID at (919)722-1343.

TO ATTEND CLASSES ON BASE

1. The student must first fill out and submit the Background Security Check Form.
2. To obtain a Base Pass the student must, take the following items to the Visitor Center no more than two days before the term begins:
 - a. Class Registration/Receipt (Must show class dates and times)
 - b. Driver's License or State ID
 - c. Valid/Signed Vehicle Registration Form
 - d. Proof of insurance from your insurance company with effective dates.

NOTE: THE STUDENT MUST BE ABLE TO DRIVE TO AND FROM BASE CLASSES. PASSES WILL NOT BE ISSUED FOR "DRIVER'S ONLY" UNLESS THE STUDENT HAS A DISABILITY.

Distance Education

Wayne Community College (WCC) provides an innovative, flexible and convenient approach to learning, offering online degree, diploma and certificate programs. Through WCC's Distance Education program students participate in classes that are convenient for them. Our online programs are designed to empower students to pursue a degree and/or achieve their educational goals.

WCC offers distance education courses in Internet, Hybrid, Web-assisted, and Telecourse formats.

Internet courses are offered completely online though Moodle, the College's Learning Management Systems (LMS).

Hybrid courses blend face-to-face and online learning. Hybrid courses integrate face-to-face instruction with on-line instruction; to promote active, independent learning; and to reduce class seat time.

Web-assisted courses provide online access to supplemental content and/or activities to students enrolled in traditional seated courses.

Telecourses provide instruction primarily through video format.

Students follow a course syllabus, view specific lessons or lectures, read and work through assigned materials, and submit course work as directed by an instructor. Telecourses may or may not be web-enhanced. The instructor for each course will set the requirement for on-campus meetings, classes, means of communication, and testing.

Distance education courses, policies, and enrollment procedures are listed in the College's schedule of courses and on the College Web site. Registration processes, credit hours earned, and cost is the same as for traditional courses.

Students should meet the following for online courses:

1. It is recommended (but not required) that students have satisfactorily completed or tested out of RED 090.
2. Met one or more of the following recommendations: satisfactorily completed or tested out of CIS 070 or CTS 080, successfully completed an online or hybrid course at WCC, or developed the necessary computer skills through other computer-related courses/training (i.e., continuing education, on-the-job, etc.)
3. Have access to a reliable Desktop or Laptop computer with Windows XP or better with a minimum of 512mb of RAM and 2G of free hard disk space.
4. Have access to a reliable Internet connection with at least a 56K modem.

Students should have the following skills/abilities and be able to:

1. Use an Internet browser.
2. Conduct Internet searches using various search engines.
3. Compose, send and receive e-mail with attachments.
4. Use Microsoft Word.
5. Save files in various formats.
6. Download and upload files from the Internet.
7. Allocate the time needed to participate in an online course.
8. Obtain and install software required for the course.
9. Maintain academic progression through the duration of the course.

Wells Fargo Partnership East, South Central Consortium

Wells Fargo Partnership East, South Central Consortium (WPE) is a collaboration between the East Carolina University, College of Education and Wayne Community College, James Sprunt Community College, Lenoir Community College, Sampson Community College, Fayetteville Technical Community College and Johnston Community College. Wayne Community College serves as the hub site host college for the WPE office. The goal of Wells Fargo Partnership East is to bring educational opportunities close to home for community college students through on-line courses and courses offered at the community college hub site. WPE makes it possible for students to pursue a baccalaureate degree in a teacher education program without moving or traveling to the university.

What programs are offered?

B.S. in Elementary Education (K-6) with a K-12 Reading Licensure
 B.S. in Special Education (K-12) with a K-12 Reading Licensure
 B.S. in Middle Grades (6-9) with a K-12 Reading Licensure

How do I get my degree?

Wells Fargo Partnership East is designed to allow students to complete their general education coursework at one of the partnering community colleges and then transfer into the ECU program to complete

the junior and senior years of the teaching degree in elementary education, special education, or middle grades education. All courses for the junior and senior years are offered via on-line courses.

How do I join Wells Fargo Partnership East?

Second semester freshmen are encouraged to schedule an appointment with the consortium coordinator to determine when to begin university classes. Copies of college transcripts are needed when meeting with the WPE coordinator. At the end of the sophomore year, students may apply to WPE by completing a WPE application and an ECU official application.

Applications may be obtained from the WPE coordinator in Dogwood 118 North at Wayne Community College. All students who apply to WPE must have already taken the Praxis I test in reading, writing, mathematics prior to applying to WPE.

The WPE Coordinator's contact information is:

Carol Ann Smith, Coordinator and Advisor
 ECU Wells Fargo Partnership East
 South Central Consortium
 Wayne Community College
 PO Box 8002 / 3000 Wayne Memorial Drive
 Dogwood 118 North
 Goldsboro, NC 27533

Phone: 919-739-7012 • Fax: 919-731-7413

E-mail: smithcaro@ecu.edu (preferred) or casmith@waynecc.edu

For more information about Wells Fargo Partnership East, please visit the website at: www.coe.ecu.edu/partner_east/ or www.ecu.edu/wpe.

Continuing Education Services

Wayne Community College is dedicated to providing a broad range of educational/training programs. It offers students an opportunity to further their education, to improve their individual efficiency, to upgrade and improve job skills, to prepare for future employment, to enrich their cultural lives, and to help make them more effective members of their community. Anyone who is a high school graduate or 18 years of age is eligible to participate in the program conducted by the Division of Continuing Education Services.

Class Schedules and Enrollment

Classes are scheduled during the day and in the evening on campus and at various times and locations throughout Wayne County. Courses are organized on a basis of need, interest, and availability of suitable facilities. A full program is offered, with classes usually meeting once or twice a week, from two to three hours each session.

Pre-registration is encouraged and available for all courses during normal customer service hours. Registration may be completed online, in the classroom, or at the Continuing Education Services Customer Service Desk located in the Walnut building.

A continuing education course schedule is published each term and distributed throughout Wayne County. Specific courses, descriptions, dates, times, and locations are found in the course schedule.

Refund Policy for Continuing Education Services

The refund policy for Continuing Education courses, as established by the N.C. State General Assembly allows a 75 percent refund, after the

respective class begins, upon the request of the student if the student officially withdraws from the class prior to or on the 10 percent point of the scheduled hours of the class

A 100 percent refund shall be made if the student officially withdraws prior to the first day of class of the academic semester or term as noted in the college calendar. Also, a student is eligible for a 100 percent refund if the class in which the student is officially registered is cancelled due to insufficient enrollment.

A 100 percent refund shall be made if the student officially withdraws from a contract hour class prior to the first day of class of the academic semester or term or if the college cancels the class. **A 75 percent refund shall be made if the student officially withdraws from a contract hour class on or before the tenth calendar day of the class.**

There are no refunds for self-supporting classes. Under this policy, the College shall notify the student of the right to receive a refund at the time of official withdrawal.

Occupational Extension Course Repetition Policy

A special provision of the North Carolina's General Assembly concerning class repetition became effective September 1993. Under that provision, a student who takes an occupational class more than twice is required to pay a fee to be determined using the computation below. For example, the first and second time a student takes an occupational extension class, the fee will be based on the sliding fee scale (see below). The third and subsequent times will be based on the number of hours that the class meets multiplied by \$6.80. Example: 33 hours x \$6.80=\$224.40 registration fee. Senior citizens (65 or older) who are eligible to take classes free of charge will also be required to pay for classes they take more than twice. For Senior Citizens Section 8.4.(a) amends G.S. 115D-5(b) to authorize the waiver of one course of noncredit instruction per academic semester for legal residents of North Carolina age 65 or older.

Students are primarily responsible for monitoring class repetitions; however, the colleges shall review records and charge students full cost for classes taken more than twice. Students are exempt from this policy if class repetition is required for certification, recertification, or Licensure.

Minimum Class Size Policy

Class size will be determined on a class-by-class basis and will take into consideration the subject matter, need of the course, the location, and the impact it will have on the institution including resources, and the students enrolled. Any variance to this policy must be approved by the Vice President for Continuing Education Services.

Fees and Insurance

Registration fees from \$70 to \$180 are charged to students in occupational extension classes depending upon the total class hours. The Leisure and Recreational classes have a registration fee of \$35. Classes that are recreational in nature are self-supporting. The amount of tuition for recreational classes is determined by the pro-rated cost per student it takes to conduct the course in accordance with legislation enacted by the 1973 North Carolina General Assembly, for example, instructor salary, facility rental, utilities, and instructional materials.

Students are expected to purchase supplies, materials, tools, and

books required for the class. Instructional services and instructional materials are supplied by the College.

Students are now required to pay \$1.25 Student Accident Insurance Fee for all Continuing Education courses that meet four or more weeks during a semester. This fee is paid once during a term regardless of the number of classes taken.

Recent changes to Section 8.4(a) amends G.S. 115D-5(b) to authorize the waiver of one course of noncredit (Occupational Extension) instruction per academic semester for legal residents of North Carolina age 65 or older. For information call Continuing Education Services at 919-739-6900.

*SLIDING FEE SCALE:

1 to 24 hours	\$70.00
25 to 50 hours	\$125.00
51+ hours	\$180.00
Computer Technology Fee	\$5.00 per term

NOTE: Charges are subject to change.

Continuing Education Unit

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

The primary purpose of the CEU is to provide a permanent record of the individuals who have completed one or more non-credit educational experiences. One CEU is defined as 10 contact hours (1-hour=60 minutes) of participation in a continuing education course. A CEU is a unit of credit earned by participation in an accredited program designed for professional with certificates or licenses to practice various professions.

Programs

Continuing Education Services offers a wide variety of classes based on the needs and interests of the community. Along with the specialty programs listed below, Continuing Education Services offers many occupational extension programs, self-enrichment, and self-improvement programs, and various academic programs on a regular basis.

Suggestions from students, the community, and programs developed by the staff, provide for exciting and interesting programs each term.

Allied Health Program for Continuing Education Services

The Allied Health program is designed to provide training for entry-level careers in the health care industry. A variety of courses are offered leading to certificates or certification, such as Nurse I and Nurse II, Medication Aide, Medical Insurance and Billing, Substance Abuse and Health Unit Coordination, Electronic Health Records, and specialized healthcare training. Seating is limited for some classes as dictated by state governing agencies.

Nurse Aide Training Program

Nurse Aide I and Nurse Aide II courses introduce basic nursing assistant skills to provide personal care and some complex skills for patients, residents, or clients in a health care setting. Some of the

following pre-requisites are required:

- Attending a mandatory information session before registration
- COMPASS Reading Placement test score of 50 or above
- Affiliated agencies for clinical practice require students to complete a criminal background check and drug screen

Cost of classes: \$180 and \$1.25 insurance

Cardiopulmonary Resuscitation training (CPR) is provided by certified American Heart CPR instructors at a cost of \$4 for the CPR card.

Refresher courses are available for Nurse Aide I and II applicants seeking recertification. Students must meet the North Carolina Nurse Aide Registry (NCNAR) and North Carolina Board of Nursing (NCBON) requirements prior to taking the refresher course.

Cost of Classes: minimum of \$70 and for exact cost refer to Fees and Insurance.

Medical Insurance/Coding Certificate Program

This program offers a series of five courses that lead to a certificate. Classes are designed for those seeking experience in coding and billing for health care agencies. Upon completion students will be prepared to obtain a certificate as a certified professional coder (CPC) awarded by the American Academy of Professional Coders (AAPC) credentialing agency.

Substance Abuse Training

Courses offered are designed to meet the North Carolina Substance Abuse Certification Board's requirements for training towards becoming a Substance Abuse Counselor or seeking continuing education credits (CEUs). Participants seeking initial certification must complete a minimum of 200 CEU hours.

ONLINE Ed2Go Courses (Distance Education)

Continuing Education Services offer internet (online or web-based) courses that can be completed from home. Each course is a comprehensive online course offered in a convenient six-week format with expert instructors. These courses offer engaging student discussion areas with access to instructor feedback throughout the class. Course lessons are released twice a week and can be accessed from any computer with an internet connection 24 hours a day, seven days a week. There are more than 200 different courses offered that cover subjects such as teacher effectiveness, Microsoft Office, computer troubleshooting, computer and wireless networking, web page design, foreign languages, personal development, child care, and business/office administration. For added flexibility, new courses start every month.

These courses are formatted for 24 contact hours which provides 2.4 Continuing Education Units (CEUs) and a certificate of completion is awarded upon successful completion of the course. The cost of each course is \$65 and run for only six weeks.

Occupational Extension Programs

Occupational Extension Programs are designed to equip students with practical knowledge of a specific nature which will increase the student's technical skills. Successful completion of programs in this field will enable the student to pursue careers in many different areas. These programs include principles and rules particular to the specific skill being developed. Courses are scheduled in response to anticipated or known

need to upgrade existing skills or aid the student in the development of new skills. The variety of programs scheduled are only limited by student interest, the availability of suitable facilities, and instructional services.

Computer Programs

The computer programs area is designed to meet the changing needs of the novice computer user to the more advanced user. The Continuing Education Services Computer Programs Department offers courses in various software applications, hardware maintenance, and networking courses including the CISCO Academy. Computer courses are available in Spanish and other languages upon request. The college also offers many classes online and in hybrid environments allowing students flexibility to choose courses that fit their schedule. In addition to a wide offering of public classes, courses may also be tailored to meet specific business needs. Specific course offerings include Microsoft Office suite (Word, Power Point, and Excel); Microsoft Windows operating systems, Adobe Creative Suite and Intuit software programs like QuickBooks. Certificate programs are available in Graphic Arts Multi-media specialist, Networking Specialist, and the Administrative Assistant.

Community Service Programs

Leisure and Recreational Programs

Leisure and Recreational Programs are designed to provide lifelong learning for adults. These programs contribute to the community's overall cultural, civic and intellectual growth. Leisure and Recreational program offerings include courses that focus on an individual's personal or leisure needs. These courses cover a wide variety of areas in the fine arts (painting, stained glass); consumer education (introduction to computers); home maintenance (small gas engine repair, sewing), defensive driving and other cultural and civic needs.

Emergency Medical Service Programs

The Emergency Medical Service programs are designed to meet the requirements for certifications including CPR/Defibrillation, First Aid, Medical Responder, Emergency Medical Technician (EMT)-Basic, EMT-Intermediate, and Paramedic. The programs also provide training and Continuing Education for Emergency Medical Services, rescue squads, ambulance services, fire departments, law enforcement agencies, public school teachers, citizens seeking to hold a CPR and first aid certification, and individuals holding a North Carolina EMT certification. Classes are held on campus and throughout Wayne County.

Fire Service Training

Through a statewide system of certified instructors, Wayne Community College offers a variety of fire service courses to enhance the training of Goldsboro and Wayne County fire departments. The



system is flexible and mobile so that it can reach every department in Wayne County. The Fire Service Training Program is designed to provide fire personnel an opportunity to gain technical information and to build skills in modern fire fighting through a variety of learning experiences. The Fire Service Training Program courses are usually conducted in local fire departments for volunteer and career firemen who train as organized groups utilizing equipment and methods they would ordinarily use in preventing and suppressing fire. Offerings include the Fire Training Standards Program, Firefighter I and II Certification, and specialty courses/programs. Courses and programs are also designed to meet the needs of business and industry in order to meet state and federal regulations.

Law Enforcement Training

The Law Enforcement Training Programs are designed to train and upgrade personnel in detention officer, 911 Telecommunicators, specialized law enforcement training courses, supervisor training, community oriented training, as well as meeting the needs for Federal and State Mandated Training, Wayne Community College is able to meet the training needs and requests of law enforcement agencies within Wayne County through the request of specific departmental training. Wayne Community College utilizes a pool of state certified instructors.

Human Resources Development (HRD)

The Human Resources Development program provides employability skills training and career development counseling to dislocated workers, unemployed workers, and anyone interested in self-improvement. The courses taught in this program address the six core components: the evaluation of individual skill levels and limitations; the development of a positive self-image, employability skills, communication skills, problem-solving/critical thinking skills; and awareness of information technology in the workplace.

Basic Skills Programs for College and Career Readiness

The goal of the Basic Skills Department is to be responsive to the diverse educational needs of Wayne County's adult citizens who are seeking a high school diploma or GED or whose basic literacy and life skills are below a high school level. To enroll, a student must be at least 18 years of age, and must not be currently enrolled in a public school. (Students that are 16 or 17 years of age must have special permission to enter the program.

Wayne Community College offers six tuition-free programs of the Adult Basic Skills Continuum in North Carolina:

- Adult Basic Education (ABE)
- Adult High School (AHS)
- General Educational Development (GED)
- Compensatory Education (CED)
- English as a Second Language (ESL)
- Basic Skills Plus

Our classes serve all of Wayne County, including special populations and agencies, such as prisons Wayne Opportunity Center and Wages.

The Basic Skills office is open Monday through Thursday from 8:00 a.m. to 6:00 p.m. and Friday from 8:00 a.m. to 1:00 p.m. The office is located on the second floor in the Walnut Building. For information on any of the programs and services, call (919) 739-6908.

Adult Basic Education (ABE)

Adult Basic Education is a competency-based curriculum focused

on basic reading, writing, communication, and math skills. ABE provides the foundation of basic skills needed for additional studies in AHS or GED and transition into postsecondary education. The ABE curriculum explores ways to enhance job performance, self-esteem, critical thinking and life skills. Students are provided an Individual Educational Plan which allows them to study at a pace consistent with their abilities, needs, and goals. ABE classes are offered on campus and throughout Wayne County.

Adult High School (AHS)

The Adult High School program offers a 21 course program for adults 18 and older. Students under the age of 18 and who entered the 9th grade prior to 2009 must complete a 24-course program for graduation. Students who entered the 9th grade in 2009 or later are required to complete a 21 course program which includes four math credits. A collaboration with the NC State Board of Education, Wayne County Public Schools and the NC Community College System determines diploma requirements for this program. Adult High School classes are offered on campus only.

General Educational Development (GED)

General Educational Development prepares a student to pass a series of five tests designed to measure general educational competence. An individualized plan of study is created for each student. Upon successful completion of the tests, the student is awarded a certificate that is recognized and generally accepted as equivalent to a high school diploma.

GED practice tests are given to determine a student's eligibility to take the Official GED Test. The fee for the Official GED Test is \$25. (subject to change), GED classes are offered on campus and at other locations throughout Wayne County. The Official GED test is offered once a month at the main campus location.

Basic Skills Plus

Basic Skills Plus is a program designed to provide GED and AHS level students with a pathway and support system to achieve postsecondary education and employment. The program offers an accelerated path for students to work on a GED or AHS diploma while enrolled in College or Continuing Education courses that may lead to a high demand career such as Applied Technology and Allied Health. The introductory class to Basic Skills Plus is Achieving Postsecondary Pathways which begins the transition process from Basic Skills to college placement test, college admissions process, financial aid and the many career paths available at Wayne Community College.

English as a Second Language (ESL)

English as a Second Language is designed for adults who want to learn the English language skills necessary to function effectively in an environment where English is spoken. The curriculum provides skills in listening, speaking, reading, writing, and comprehension of the English language as well as basic life skills such as how to communicate with a child's teacher and how to communicate with medical caregivers. Classes for U.S. citizenship are also offered.

WIA (Workforce Investment Act) Youth, Adult, Dislocated Programs

The Workforce Investment Act for the Adult Program is to design intensive and training services to individuals age 18 and older who are at or below the level of self-sufficiency. Services include financial assistance with tuition, books and related educational expenses.

The Workforce Investment Act for the Dislocated Worker Program serves those who have lost their jobs because of layoff, downsizing or plant closure. Services available include financial assistance with tuition, books and related educational expenses.

Wayne Business and Industry Center

The North Carolina Community College System is deeply committed to economic and workforce development in NC. Wayne Community College strives to extend that commitment to local business and industry in Wayne County by offering "on time" and "on target" training through the Wayne Business and Industry Center (WBandIC). WBandIC involves all levels of business and professional organizations in the local community through four main avenues: the WORKS Initiative, The Small Business Center, the Military Business Center, and the Customized Training Program. WBandIC partners with companies to deliver job-related counseling, education, training and technical services for area business. Wayne Business and Industry Center values customer service, continuous improvement and product excellence.

Small Business Center

The Small Business Center (SBC) is part of NC's dynamic Small Business Center Network and provides assistance and guidance to current or aspiring small business owners in Wayne County. The goal of the SBC is to increase the number and the success rate of such businesses in NC and in Wayne County through one-on-one counseling services; training, educational programs and seminars; and access to multi-media resources. Most services of the SBC are offered at no charge.

Military Business Center

The mission of the Military Business Center is to leverage military and other federal business opportunities for economic development and quality of life in North Carolina. The center's goals are increasing federal contracts for existing businesses; increasing employment of transitioning military and military family members; and increasing recruitment, relocation and development of defense-related businesses in the state.

Customized Training Program

Wayne Community College works closely with the Economic Development Commission and the NC Community College System Customized Training Program to provide training programs customized to meet the specific needs of qualifying business and industry. The Customized Training Program provides education, training and support services for new, expanding and existing business and industry in Wayne County. The Customized Training Program allows the college to design and deliver a training program that is tailored to fit the specific needs of companies to support job growth, productivity enhancement and technology investment.

WORKS (Wayne Occupational Readiness Keys for Success)

WORKS is a workforce and economic development initiative unique to Wayne County. Partners in the initiative include Wayne Community College, Wayne County Schools, the Chamber of Commerce, Wayne County Development Alliance, NC Division of Employment Services, and business and industry leaders. The mission of WORKS is to develop and market a skilled workforce for Wayne County. Through the WORKS partnership, individuals may improve their work-readiness through WorkKeys job profiling for employers, WorkKeys assessments and skill gap training, Career Readiness Certification attainment, soft skills training and other career development activities.

WORKS (Wayne Occupational Readiness Keys for Success) Employability Skills Lab

The WORKS Employability Skills Lab is located in Wayne Learning Center, 141/143 and is available for College students and the general public. The goal of the lab is to help individuals enhance their marketability for the workforce. The lab is self-directed and structured so that individuals work and progress at their own pace with instructor assistance as needed. Both day and evening options are available, and the lab operates on an open entry/open exit format. Although the primary purpose of the WORKS Lab is CRC test preparation, individuals may receive assistance with the following services:

- Preparation for WorkKeys® assessments (including CRC) WorkKeys assessments
- Referrals to educational opportunities and career services
- Facilitated skill gap training
- For additional information and time availability, call (919) 739-7004 or (919) 739-7005.

Career Readiness Certification - The North Carolina Career Readiness Certificate (CRC) shows prospective employers that applicants possess the essential skills required in today's workplace. Even if a candidate has a college degree, the CRC further verifies that he/she can handle the kinds of tasks that are common in today's workplace, such as finding information, reading instructions and directions, and working with applied mathematics to solve work-related problems.

The CRC is based on WorkKeys® assessments. WorkKeys® is a comprehensive skills assessment tool used by thousands of companies in the U.S. Because it is part of a national career readiness initiative, the CRC is a portable credential recognized in many states.

Individuals may earn a Bronze, Silver or Gold CRC based on their performance on three WorkKeys® tests: Applied Mathematics, Locating Information, and Reading for Information. Assessments are given several times a month, and certificates are awarded by the State of North Carolina through the community college. There may be costs associated with the assessments. Students may register for the CRC assessments by coming to Wayne Learning Center, 141.



WAYNE COMMUNITY COLLEGE

W h e r e F u t u r e s G r o w



PROGRAMS OF STUDY

Certificate, Diploma, Associate in Applied Science, and Associate Degree (Transfer) Programs

Accounting (A25100)

Official Program Description registered with the NC Community College System:

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," 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.

Program Learning Outcomes

Upon completion of the Accounting program, a graduate should be able to:

- Prepare income tax returns.
- Produce payroll records and tax forms.
- Apply generally accepted accounting principles to produce accounting reports.
- Use software applications for the accounting profession.
- Apply the necessary business principles to a real world scenario.

Degree Awarded

The Associate in Applied Science Degree - Accounting is awarded by the College upon completion of this program.

For More Information

The Accounting program is in the Business and Computer Technologies Division. For more information, call (919) 739-6877, send e-mail to tmschmeltzer@waynecc.edu, or visit our web site: www.waynecc.edu

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ACC 120 Principles of Financial Accounting	5	4
CIS 110 Introduction to Computers	4	3
ENG 111 Expository Writing	3	3
MAT 115 Mathematical Models.....	4	3
*Business Elective.....	3	3
		17

SECOND SEMESTER

ACC 121 Prin of Managerial Accounting	5	4
ACC 122 Principles of Financial Accounting II	3	3
ACC 140 Payroll Accounting	3	2
BUS 115 Business Law I.....	3	3
CTS 130 Spreadsheet	4	3
ENG 114 Professional Research and Reporting	3	3
		18

THIRD SEMESTER

ACC 129 Individual Income Taxes.....	4	3
ACC 150 Accounting Software Appl. ...	3	2
ACC 220 Intermediate Accounting I ...	5	4
COE 110 World of Work	1	1
* Economics Elective	3	3
Humanities/Fine Arts Elective	3	3
*Professional Elective	1	0-2
		16-18

FOURTH SEMESTER

ACC 130 Business Income Taxes	4	3
ACC 221 Intermediate Accounting II ... Social/Behavioral Science Elective	5	4
	3	3
* Professional Elective	3	3
* Professional Elective	3	1-3
		14-16
Total Credit Hours		65-69

*Select one of the following Business Electives:

BUS 110 Introduction to Business	3	3
BUS 137 Principles of Management ...	3	3
BUS 240 Business Ethics	3	3

*Select one of the following Economics Electives:

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

***Select 6-semester hours of Professional Electives from the courses below:

- COE 111 and COE 122 or 112 and COE 121 must be completed in sequence in order to meet the Professional Elective requirement.

- No more than 3 semester hours of Cooperative Education Work Experience can be applied as Professional Electives.

ACC 250	Advanced Accounting	3	3
BUS 225	Business Finance	4	3
DBA 110	Database Concepts	5	3
COE 111	Co-op Work Exp I.....	10	1
COE 112	Co-op Work Exp I.....	20	2
COE 121	Co-op Work Exp II.....	10	1
COE 122	Co-op Work Exp II.....	20	2
COE 131	Co-op Work Exp III.....	10	1

Agribusiness Technology (A15100)

Official Program Description registered with the NC Community College System:

The Agribusiness Technology curriculum is designed to prepare individuals for careers in the agribusiness segment of the agricultural industry. It provides an understanding of basic business concepts and principles as they relate to the agricultural industry.

Students will learn the principles of organization and management in agricultural businesses and the application of these principles in agricultural production. Students will also learn the basic principles of our economic system and government policies and programs relating to agriculture.

Graduates should qualify for a variety of jobs in agricultural businesses such as equipment, feed, and agricultural supply sales, store managers, farm operations, and office managers of agricultural products marketing firms.

Program Learning Outcomes

Upon completion of the Agribusiness program, a graduate should be able to:

- Plan an efficient and profitable agriculture business.
- Identify and treat soil and crop pest issues in the field of agriculture.
- Perform calculations needed in the agriculture industry.
- Use computer skills effectively in the agriculture industry.
- Communicate effectively.

Degree Awarded

The Associate in Applied Science Degree - Agribusiness Technology is awarded by the College upon completion of this program.

For More Information

The Agribusiness Technology program is located in the Applied Technology Division. For more information, call (919) 739-6807 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.
- Students are required to demonstrate competency in MAT 070 through the placement test or course completion with a grade of C or better prior to receiving a degree.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111	College Student Success.....	1 1
ANS 110	Animal Science.....	3 3

	Contact Hours	Semester Credit Hours
BIO 160	Introductory Life Science	4 3
CIS 110	Introduction to Computers	4 3
COE 110	World of Work	1 1
ENG 111	Expository Writing.....	3 3
14		

SECOND SEMESTER

AGR 110	Agricultural Economics	3 3
AGR 150	Ag-O-Metrics.....	3 3
AGR 170	Soil Science	4 3
ENG 114	Professional Research and Reporting	3 3
	*Animal Science Elective	3 3-4
15-16		

SUMMER TERM

COE 112	Co-op Work Experience I.....	20 2
OR		
AGR 131	Market Garden Lab.....	6 2
AGR 139	Intro to Sustainable Ag.....	3 3
AGR 140	Agricultural Chemicals.....	4 3
8		

THIRD SEMESTER

AGR 210	Agricultural Accounting	5 3
AGR 213	Ag Law and Finance	3 3
BUS 137	Principles of Management	3 3
BUS 151	People Skills	3 3
	Humanities/Fine Arts Elective ..	3 3
15		

FOURTH SEMESTER

AGR 212	Farm Business Management...	3 3
AGR 214	Agricultural Marketing.....	3 3
AGR 262	Weed ID and Control	5 3
	*Animal Science Elective	3-5 3-4
	Social/Behavioral Science Elective	3 3
15-16		

Total Credit Hours 67-68

	Contact Hours	Semester Credit Hours
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*Select one of the following Agriculture Electives:

ANS 115	Animal Feeds and Nutrition	3 3
ANS 120	Beef Production	4 3
ANS 130	Poultry Production	4 3
ANS 140	Swine Production.....	4 3
ANS 150	Animal Health Management	3 3
ANS 160	Animal Waste Management.....	3 3
ANS 180	Equine Production	5 4
ANS 210	Livestock Production Issues	3 3
ANS 213	Animal Reproduction	4 3
ANS 230	Poultry Management.....	3 3

Agribusiness Technology Diploma (D15100)

Diploma Awarded

A diploma in Agribusiness is awarded by the College upon completion of this program.

For More Information

The Agribusiness Technology program is located in the Applied

Technology Division. For more information, call (919) 739-6807 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
 - English, reading and computer skills placement tests are required.
 Students must demonstrate the ability to perform at the RDG 090 level, either through the placement test or taking the appropriate coursework, prior to receiving the diploma.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
AGR 150 Ag-O-Metrics.....	3	3
AGR 210 Agricultural Accounting	5	3
AGR 213 Ag Law and Finance	3	3
ANS 110 Animal Science	3	3
BIO 160 Introductory Life Science	4	3
ENG 111 Expository Writing	3	3
		19
SECOND SEMESTER		
AGR 140 Agricultural Chemicals	4	3
AGR 170 Soil Science	4	3
AGR 212 Farm Business Management...	3	3
CIS 110 Introduction to Computers	4	3
COE 110 World of Work	1	1
ENG 114 Professional Research and Reporting	3	3
		16
SUMMER TERM		
AGR 110 Agricultural Economics	3	3
COE 112 Co-op Work Experience I.....	20	2
		5
Total Credit Hours		40

Agribusiness Technology Certificate (C15100)

Certificate Awarded

A certificate in Agribusiness is awarded by the College upon completion of this program.

For More Information

The Agribusiness Technology program is located in the Applied Technology Division. For more information, call (919) 739-6807 or visit us at our web site at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AGR 150 Ag-O-Metrics.....	3	3
AGR 210 Agricultural Accounting	5	3
AGR 213 Ag Law and Finance	3	3
		9
SECOND SEMESTER		
AGR 110 Agricultural Economics	3	3
AGR 212 Farm Business Management...	3	3

	Contact Hours	Semester Credit Hours
AGR 214 Agricultural Marketing	3	3
		9
Total Credit Hours		18

Air Conditioning, Heating, and Refrigeration Technology (D35100)

Official Program Description registered with NC Community College System:

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.

Graduates should be able to assist in the start up, preventive maintenance, service, repair, and/or installation of residential and light commercial systems.

Program Learning Outcomes

Upon completion of the Air Conditioning, Heating and Refrigeration Technology program a graduate should be able to:

- Apply the fundamental and advanced principles of air conditioning, heating, and refrigeration technology in troubleshooting, replacing, servicing, installing, and repairing equipment and systems.
- Recognize and utilize the appropriate tools, test instruments, and equipment to troubleshoot and affect desired results.
- Determine optimal approaches to ascertain most desired means, methods, and end results in interfacing and interacting with HVACR industry customers.
- Demonstrate logical reasoning and enhanced problem solving abilities by troubleshooting and diagnosing faults in HVACR equipment and systems.
- Construct and operate basic and advanced HVACR refrigerant electrical and air flow circuits and systems.

Diploma Awarded

A diploma in the Air Conditioning, Heating, and Refrigeration Technology program is awarded by the College upon completion of this program.

Note: Students are required to purchase tools, test equipment, and pay a \$25 EPA Refrigerant Certification Fee. Also, some field trips and special meetings require fees.

For More Information

The Air Conditioning, Heating, and Refrigeration Technology program is in the Applied Technology Division. For more information, call (919) 739-6813 or visit us at our web site at www.waynecc.edu.

Admissions

Admission in the program requires a placement test in reading (080) and math to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
AHR 110 Intro to Refrigeration	8	5
AHR 111 HVACR Electricity	4	3
AHR 113 Comfort Cooling.....	6	4
AHR 160 Refrigerant Certification.....	1	1
BPR 135 Schematics and Diagrams.....	2	2
ENG 102 Applied Communications II	3	3
		19
SECOND SEMESTER		
AHR 112 Heating Technology	6	4
AHR 114 Heat Pump Technology.....	6	4
AHR 130 HVAC Controls.....	4	3
AHR 211 Residential System Design.....	4	3
MAT 101 Applied Mathematics I	4	3
WLD 112 Basic Welding Processes	4	2
		19
SUMMER TERM		
AHR 245 Chiller Systems	4	2
AHR 247 Atypical Systems	4	2
		4
Total Credit Hours		42

Applied Animal Science Technology (A15280)

Official Program Description registered with the NC Community College System:

The Applied Animal Science Technology curriculum is designed to prepare students for careers in the production, processing and distribution of livestock and poultry and their products according to scientific principles essential to efficient and profitable operation.

Students should learn skills necessary for the operation of efficient and profitable livestock enterprises. Coursework includes production practices, animal health, nutrition, reproduction, and management.

Graduates are qualified for entry-level jobs as herd or flock managers, field service persons, feed salespersons, equipment salespersons, feed mill workers, and buyers of poultry and livestock.

Program Learning Outcomes

Upon completion of the Applied Animal Science program, a graduate should be able to:

- Plan an efficient and profitable livestock enterprise.
- Diagnose and treat animal health issues.
- Perform calculations needed in the field of animal science.
- Use computer skills effectively in the animal industry.
- Communicate effectively.

Degree Awarded

The Associate in Applied Science Degree - Applied Animal Science Technology is awarded by the College upon completion of this program.

For More Information

The Applied Animal Science Technology program is in the Applied Technology Division. For more information, call (919) 739-6808 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills are required to determine entry-level courses that match individual needs.
- Students are required to demonstrate competency in MAT 070

through the placement test or course completion with a grade of C or better prior to receiving a degree.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ANS 110 Animal Science	3	3
ANS 140 Swine Production.....	4	3
BIO 160 Introductory Life Science	4	3
CIS 110 Introduction to Computers	4	3
ENG 111 Expository Writing	3	3
*ANS Elective Option I.....	4	3
		16-19

SECOND SEMESTER		
AGR 150 Ag-O-Metrics.....	3	3
AGR 170 Soil Science	4	3
ANS 120 Beef Production	4	3
COE 110 World of Work	1	1
ENG 114 Professional Research and Reporting	3	3
*ANS Elective Option II.....	4	3
		13-16

SUMMER TERM		
ANS 150 Animal Health Management ...	3	3
ANS 160 Animal Waste Management....	3	3
COE 112 Co-op Work Experience I.....	20	2
OR		
COE 111 Co-op Work Experience I.....	10	1
AND		
COE 121 Co-op Work Experience II.....	10	1
		8

THIRD SEMESTER		
AGR 110 Agricultural Economics	3	3
ANS 115 Animal Feeds and Nutrition	4	3
ANS 130 Poultry Production	4	3
ANS 141 Swine Herd Management	2	2
BUS 151 People Skills	3	3
Social/Behav Science Elective	3	3
		17

FOURTH SEMESTER		
ANS 180 Equine Production	5	4
ANS 210 Livestock Prod Issues.....	3	3
ANS 213 Animal Reproduction	4	3
ANS 230 Poultry Management.....	3	3
Humanities/Fine Arts Elective..	3	3
		16
Total Credit Hours		73

*Select one of the following Animal Science Elective Options:

Option I		
ACM 111 Health Care for Animals.....	4	3
Option II		
ANS 170 Sheep and Goat Production	4	3

**Applied Animal Science Technology
Diploma (D15280)**

Diploma Awarded

A diploma is awarded by the College upon completion of this program.

For More Information

The Applied Animal Science Technology Diploma program is in the Applied Technology Division. For more information, call (919) 739-6808 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- The English, reading, and computer skills placement tests are required. Students must demonstrate the ability to perform at the RDG 090 level, either through the placement test or taking the appropriate coursework.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ANS 110 Animal Science	3	3
ANS 115 Animal Feeds and Nutrition	4	3
ANS 130 Poultry Production	4	3
ANS 140 Swine Production.....	4	3
BIO 160 Introductory Life Science	4	3
ENG 111 Expository Writing.....	3	3
		19
SECOND SEMESTER		
AGR 170 Soil Science	4	3
ANS 120 Beef Production	4	3
ANS 210 Livestock Prod Issues.....	3	3
ANS 213 Animal Reproduction	4	3
CIS 110 Introduction to Computers	4	3
ENG 114 Professional Research and Reporting	3	3
		18
SUMMER TERM		
ANS 150 Animal Health Management	3	3
COE 112 Co-op Work Experience I.....	20	2
OR		
COE 111 Co-op Work Experience I.....	10	1
AND		
COE 121 Co-op Work Experience II.....	10	1
		5
Total Credit Hours		42

**Applied Animal Science Technology
Certificate (C15280)**

Certificate Awarded

A certificate is awarded by the College upon completion of this program.

For More Information

The Applied Animal Science Technology program is in the Applied Technology Division. For more information, call (919) 739-6811 or visit us at our web site at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ANS 110 Animal Science	3	3
ANS 115 Animal Feeds and Nutrition	4	3
*ANS Elective Option I.....	4	3
		9
SECOND SEMESTER		
ANS 210 Livestock Prod Issues.....	3	3
ANS 213 Animal Reproduction	4	3
*ANS Elect. Option II	3	3-4
		9
Total Credit Hours		18-19

*Note courses required for Career and College Promise. Select one of the following Animal Science Elective Options:

Option I

*ANS 130 Poultry Production	3	3
ANS 140 Swine Production.....	4	3
ANS 170 Sheep and Goat Production ...	4	3

Option II

*ANS 120 Healthcare for Animals.....	4	3
ACM 111 Animal Science Elective	4	3
ANS 180 Equine Production	5	4

**Automotive Systems Technology/Multiple
Manufacturing ATEP (A60160)**

Official Program Description registered with the NC Community College System:

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 course work. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/trans axles, 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.

The Multiple Automotive Manufacturing Technician Educational Program (MM-ATEP) is a partnership involving educational institutions, national and local businesses, students, and a.m.eric and foreign automotive dealers and repair shops in the College's service area.

Program Learning Outcomes

Upon completion of the Automotive Systems Technology/Multiple Manufacturing ATEP program, a graduate should be able to:

- Diagnose and repair concerns related to ASE area A1 Engine Repair.
- Diagnose and repair concerns related to ASE area A2 Automatic Trans/Transaxle.
- Diagnose and repair concerns related to ASE area A3 Manual Drive Train and Axles.
- Diagnose and repair concerns related to ASE area A4 Suspension and Steering.
- Diagnose and repair concerns related to ASE area A5 Brakes.
- Diagnose and repair concerns related to ASE area A6 Electrical Electronic Systems.
- Diagnose and repair concerns related to ASE area A7 Heating and Air Conditioning.

- Diagnose and repair concerns related to ASE area A8 Engine Performance.

Degree Awarded

The Associate in Applied Science Degree-Automotive Systems Technology, MM ATEP, is awarded by the College upon completion of this program.

Note

Students are required to purchase tools, safety glasses, and uniforms. Costs are available by calling an Automotive Systems Technology instructor at (919) 739-6819 or 6821.

For More Information

The Automotive Systems Technology, MM ATEP, is in the Applied Technology Division. For more information, call (919) 739- 6819 or 6822 or visit us at our web site at www.waynecc.edu.

Admission

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
AUT 110 Intro to Automotive Technology.....	4	3
AUT 116 Engine Repair.....	5	3
AUT 161 Basic Automotive Electricity.....	7	5
ENG 111 Expository Writing.....	3	3
COE 110 Co-op World of work.....	1	1
OR		
AUT 116A Engine Repair Lab.....	3	1
		16
SECOND SEMESTER		
AUT 114 Safety and Emissions	3	2
AUT 141 Suspension and Steering Sys..	5	3
AUT 151 Brake Systems.....	5	3
AUT 163 Advanced Automotive Electricity/Electronics.....	5	3
COE 112 Co-op Work Experience I.....	20	2
OR		
AUT 141A Suspension and Steering Lab..	3	1
AND		
AUT 151A Brake Systems Lab.....	3	1
		13
SUMMER TERM		
AUT 171 Automotive Climate Control.....	6	4
AUT 181 Engine Performance I.....	5	3
AUT 283 Advanced Automotive Elec.....	4	3
MAT 115 Mathematical Models.....	4	3
OR		
MAT 121 Algebra/Trigonometry	4	3
		13
THIRD SEMESTER		
AUT 183 Engine Performance 2.....	8	4
AUT 231 Man Trans/Axles/DrTrains	5	3

	Contact Hours	Semester Credit Hours
ENG 114 Prof Research and Reporting ..	3	3
COE 122 Co-op Work Experience II.....	20	2
OR		
AUT 231A Manual Trans/Axels/DrTrains...	3	1
AND		
AUT 212 Auto Shop Management.....	3	3
		12-14
FOURTH SEMESTER		
AUT 281 Adv Engine Performance.....	4	3
AUT 221 Auto Trans/Transaxles.....	5	3
Humanities/Fine Arts Elective..	3	3
Social/Behavioral Science Elective	3	3
COE 132 Co-op Work Experience III.....	20	2
OR		
AUT 221A Auto Trans/Axles Lab.....	3	1
		13-14
Total Credit Hours		67-70

Automotive Systems Technology/General Motors GM ASEP (A60160A)

Official Program Description registered with the NC Community College System:

The Automotive Systems Technology (GMASEP) 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 course work. Emphasis is placed on theory, servicing and operation of brakes, electrical/electronic systems, engine performance, steering/suspension, automatic transmission/trans axles, 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.

(The General Motors Automotive Service Educational Program (GM-ASEP) is a partnership involving educational institutions, national and local businesses, students, as well as local GM dealerships throughout eastern North Carolina.)

Program Learning Outcomes

Upon completion of the Automotive Systems Technology GM-ASEP program, the new graduate is expected to:

- Diagnose and repair concerns related to ASE area A1 Engine Repair.
- Diagnose and repair concerns related to ASE area A2 Automatic Trans/Transaxle.
- Diagnose and repair concerns related to ASE area A3 Manual Drive Train and Axles.
- Diagnose and repair concerns related to ASE area A4 Suspension and Steering.
- Diagnose and repair concerns related to ASE area A5 Brakes.
- Diagnose and repair concerns related to ASE area A6 Electrical Electronic Systems.
- Diagnose and repair concerns related to ASE area A7 Heating and Air Conditioning.
- Diagnose and repair concerns related to ASE area A8 Engine Performance.

Degree Awarded

The Associate in Applied Science Degree-Automotive Systems Technology GM ASEP is awarded by the College upon completion of this program.

Note

Students are required to purchase tools, safety glasses, and uniforms. Costs are available by calling Automotive Systems Technology instructor at (919) 739-6820 or 6819.

For More Information

The Automotive Systems Technology GM ASEP program is in the Applied Technology Division. For more information call (919) 739-6820 or 6819 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
AUT 110 Intro to Automotive Technology.....	4	3
AUT 116 Engine Repair	5	3
AUT 161 Basic Automotive Electricity.....	7	5
COE 110 World of Work	1	1
ENG 111 Expository Writing	3	3
		17
SECOND SEMESTER		
AUT 114 Safety and Emissions	2	2
AUT 141 Suspension and Steering Sys..	5	3
AUT 151 Brake Systems.....	5	3
AUT 163 Advanced Automotive Electricity/Electronics.....	5	3
COE 112 Co-op Work Experience.....	20	2
		12
SUMMER TERM		
AUT 171 Auto Climate Control.....	6	4
AUT 181 Engine Performance I.....	5	3
AUT 283 Adv Auto Electronics.....	4	3
MAT 115 Mathematical Models.....	4	3
MAT 121 Algebra/Trig	4	3
		13
THIRD SEMESTER		
AUT 183 Engine Performance 2.....	8	4
AUT 231 Man Trans/Axles/DrTrains	5	3
COE 122 Co-op Work Experience II.....	20	2
ENG 114 Prof Research and Reporting ..	3	3
		12
FOURTH SEMESTER		
AUT 281 Adv Engine Performance.....	4	3
AUT 221 Auto Trans/Transaxles.....	5	3
COE 132 Co-op Work Experience III.....	20	2
Humanities/Fine Arts Elective..	3	3
Social/Behavioral Science Elective	3	3
		14
Total Credit Hours		68

Automotive Systems Technology/Multiple Manufacturing ATEP-Electrical Certificate (C60160E)

Certificate Awarded

The Electrical Certificate is awarded by the College upon completion of this program.

For More Information

The Automotive Systems Technology, MM ATEP, is in the Applied Technology Division. For more information, call (919) 739-6819 or 6822 or visit us at our web site at www.waynecc.edu.

Admission

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AUT 110 Intro to Automotive Technology.....	4	3
AUT 161 Basic Automotive Electricity.....	7	5
		8
SECOND SEMESTER		
AUT 163 Advanced Automotive Electricity/Electronics.....	5	3
		3
SUMMER TERM		
AUT 283 Advanced Automotive Electronics	4	3
		3
Total Credit Hours		14

Automotive Systems Technology/Multiple Manufacturing ATEP- Chassis Certificate (C60160B)

Certificate Awarded

The Chassis Certificate is awarded by the College upon completion of this program.

For More Information

The Automotive Systems Technology, MM ATEP, is in the Applied Technology Division. For more information, call (919) 739-6819 or 6822 or visit us at our web site at www.waynecc.edu.

Admission

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AUT 161 Basic Automotive Electricity.....	7	5
		5
SECOND SEMESTER		
AUT 141 Suspension and Steering.....	5	3
AUT 141A Suspension and Steering Lab..	3	1
AUT 151 Brake Systems.....	5	3
AUT 151A Brake Systems Lab.....	3	1
		8
Total Credit Hours		13

Automotive Systems Technology/Multiple Manufacturing ATEP- Engine Performance Certificate (C60160C)

Certificate Awarded

The Engine Performance Certificate is awarded by the College upon completion of this program.

For More Information

The Automotive Systems Technology, MM ATEP, is in the Applied Technology Division. For more information, call (919) 739-6819 or 6822 or visit us at our web site at www.waynecc.edu.

Admission

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AUT 161 Basic Automotive Electricity.....	7	5
		5
SECOND SEMESTER		
AUT 181 Engine Performance I.....	5	3
		3
SUMMER TERM		
AUT 183 Engine Performance II.....	8	4
		4
FOURTH SEMESTER		
AUT 281 Adv Engine Performance.....	4	3
		3
Total Credit Hours		15

Automotive Systems Technology/Multiple Manufacturing ATEP- Drivetrain Certificate (C60160D)

Certificate Awarded

The Drivetrain Certificate is awarded by the College upon completion of this program.

For More Information

The Automotive Systems Technology, MM ATEP, is in the Applied Technology Division. For more information, call (919) 739-6819 or 6822 or visit us at our web site at www.waynecc.edu.

Admission

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AUT 116 Engine Repair.....	5	3
AUT 116A Engine Repair Lab.....	3	1
AUT 231 Man Trans/Axles/DrTrains.....	5	3
AUT 231A Man Trans/Axles/DrTrains I.....	3	1
		8

	Contact Hours	Semester Credit Hours
SECOND SEMESTER		
AUT 221 Automatic Transmission/ Transaxles.....	5	3
AUT 221A Automatic Transmission/ Transaxles Lab.....	3	1
		4
Total Credit Hours		12

Aviation Systems Technology (A60200)

The Official Program Description registered with the NC Community College System:

This curriculum is designed to provide individuals with the basic aircraft knowledge who intend to seek a career in Aviation Systems Technology. It prepares individuals with the necessary skills for the Federal Aviation Administration written, oral, and practical powerplant and airframe examinations.

Course work includes all the systems and subsystems related to the powerplant and airframe as required by the Federal Aviation Administration Regulations Part 147.

Graduates of the curriculum should qualify for a powerplant and an airframe license. Employment opportunities exist with fixed base operators and manufacturers.

Program Learning Outcomes

Upon completion of the Aviation System Technology program, a graduate should be able to:

- Comprehend subjects related to all aspects of General Aircraft Maintenance.
- Inspect, troubleshoot, and repair all systems of Airframe.
- Inspect, troubleshoot, and repair all systems of Powerplant.

Degree Awarded

The Associate of Applied Science Degree-Aviation Systems Technology is awarded by the College upon completion of this program.

Note

Students are required to purchase tools and pay about \$1,030 for FAA exams. Costs for the tools are available by calling an Aviation Systems instructor at (919) 739-6806, 6823, or 6824. Aviation Systems Technology classes are offered at the Goldsboro-Wayne Municipal Airport.

For More Information

The Aviation Systems Technology program is in the Applied Technology Division. For more information, call (919) 739-6806, 6823, or 6824 or visit us at our web site at www.waynecc.edu/aviation.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

		Contact Hours	Semester Credit Hours
FIRST SEMESTER			
AVI	110	AVIATION MAINTENANCE - GENERAL.....	15
AMT	101	Mechanic Privileges and Limitations.....	10
AMT	102	Aviation Physics.....	30
AMT	103	Basic Electricity.....	80
AMT	104	Aircraft Drawings.....	30
AMT	105	Maint. Forms and Records..	25
AMT	106	Maint. Publications.....	25
AMT	107	Materials and Processes....	80
AMT	108	Fluid Lines and Fittings.....	30
AMT	109	Weight and Balance.....	35
AMT	110	Cleaning and Corrosion Control	25
AMT	111	Ground Operations and Servicing.....	30
ACA	111	College Student Success....	1
MAT	110	Mathematical Measurements	4
			19
SECOND SEMESTER			
AVI	120	AIRFRAME MAINTENANCE I	12
AMT	201	Aircraft Welding.....	45
AMT	202	Aircraft Non-Metallic Structures	40
AMT	203	Aircraft Sheet Metal Structures	130
AMT	204	Wood Structures, Covering and Finishes	50
AMT	205	Assembly and Rigging.....	75
AMT	213	Cabin Atmosphere Control Systems.....	55
ENG	111	Expository Writing.....	3
			15
SUMMER TERM			
AVI	130	AIRFRAME MAINTENANCE II	9
AMT	207	Aircraft Electrical Systems ..	85
AMT	208	Hydraulic and Pneumatic Power Systems.....	60
AMT	209	Aircraft Landing Gear Systems	55
AMT	210	Position and Warning Systems	25
AMT	211	Aircraft Fuel Systems.....	25
ENG	114	Professional Research and Reporting	3
			12
THIRD SEMESTER			
AVI	230	AIRFRAME MAINTENANCE III.....	7
AMT	206	Communication and Navigation Systems	30
AMT	212	Aircraft Instrument Systems	25
AMT	214	Ice and Rain Control Systems	20
AMT	215	Fire Protection Systems.....	20
AMT	216	Airframe Inspection.....	75
AVI	240	POWERPLANT MAINTENANCE I.....	6

		Contact Hours	Semester Credit Hours
AMT	301	Reciprocating Engines.....	145
AMT	302	Turbine Engines.....	75
AMT	303	Auxiliary Power Units.....	10
		Social/Behavioral Science Elective.....	3
			3
			16
FOURTH SEMESTER			
AVI	250	POWERPLANT MAINTENANCE II.....	15
AMT	304	Engine Instruments.....	35
AMT	305	Engine Fire Protection Systems	35
AMT	306	Engine Electrical Systems ...	75
AMT	307	Lubrication Systems.....	60
AMT	308	Engine Fuel Systems.....	35
AMT	309	Ignition and Starting Systems	75
AMT	310	Fuel Metering Systems	85
HUM	110	Technology and Society.....	3
			18
SUMMER TERM			
AVI	260	POWERPLANT MAINTENANCE III.....	9
AMT	311	Induction and Airframe Systems	25
AMT	312	Engining Cooling Systems ...	25
AMT	313	Engine Exhaust and Reverser Systems.....	30
AMT	314	Propellers and Unducted Fans	80
AMT	315	Engine Inspection	90
			9
			89
			Total Hours

Basic Law Enforcement Training Certificate (C55120)

Official Program Description registered with the N.C. Community College System:

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 alcoholic 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.

Upon entering this program, the student must meet the following criteria:

1. Valid North Carolina Driver's License.
2. Interview with Basic Law Enforcement Training School Director.
3. Complete medical/physical examination.
4. Submit a certified copy of criminal history.
5. Must be at least 20 years of age.
6. Must have a high school diploma or equivalent.
7. Must have a letter of sponsorship.

Program Learning Outcomes

Upon completion of the Basic Law Enforcement Training program, a graduate should be able to:

- Demonstrate a fundamental understanding of human behavior from a historical, criminological, and sociological perspective.
- Apply principles related to the diversity of people and cultures to laws and society.
- Demonstrate critical reasoning, problem solving abilities, communications skills, and ethical concerns in criminal justice.
- Apply practical principles related to the respective professions in criminal justice.
- Perform detection, investigation, and enforcement procedures with a working knowledge of the laws.

Certificate Awarded

A certificate in Basic Law Enforcement Training is awarded by the College upon completion of this program.

Note

Total costs for the program are approximately \$750.

For More Information

The Basic Law Enforcement Training program is in the Public Safety Division. Additional information may be obtained by calling (919) 739-6798 or (919) 739-6799, or visit us at our web site at www.waynccc.edu/blet.

Admissions

- A high school diploma or the equivalent is required.
- A placement test in reading is required by the state within the last year.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
CJC 100 Basic Law Enforcement Training.....	39	19
Total Credit Hours		19

Biotechnology (A20100)

Official Program Description registered with the NC Community College System:

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.

Program Learning Outcomes

Upon completion of the Biotechnology program, a graduate should be able to:

- Apply a set of analytical and problem-solving skills to real-world situations.
- Demonstrate interpersonal skills that reflect an understanding of diversity and the need for teamwork.
- Communicate information to a variety of audiences using

appropriate written, spoken, and/or visual methods.

- Demonstrate an understanding of the basic skills and knowledge necessary in a biological or chemical laboratory.
- Demonstrate an understanding of the basic principles of genetics.
- Demonstrate an understanding of the basic methods in biotechnology for the manipulation of nucleic acids as it pertains to recombinant DNA technology, PCR, restriction digests, gene mapping, cloning and forensics.
- Demonstrate an understanding of process used in the production of biomolecules.
- Demonstrate an understanding of the theory and practices of modern immunology, including the interactions between various cellular and chemical components of the immune response.
- Demonstrate the skills involved in the pursuit of an individual laboratory project in biotechnology.

Degree Awarded

The Associate in Applied Science - Biotechnology degree is awarded by Pitt Community College upon completion of this program.

Note

Pitt Community College is the degree-granting institution and all Biotechnology (BTC) courses (denoted by *) must be taken there. All other courses can be taken at WCC. Students must meet the admission criteria of both Wayne Community College and Pitt Community College. Pitt Community College will accept two students each academic year from Wayne Community College. Students enrolled full-time and making satisfactory progress should complete this program in five semesters. Additional time may be needed to achieve minimum requirements in English, math or science.

Admissions

- A high school diploma or the equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

For More Information

The Biotechnology program is in the Arts and Sciences Division. For more information, call (919) 739-6825, or visit our website at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ENG 111 Expository Writing	3	3
BIO 111 General Biology I	6	4
MAT 110 Mathematical Measurement ...	3	3
OR		
MAT 161 College Algebra	3	3
OR		
MAT 171 Precalculus Algebra	3	3
CIS 110 Introduction to Computers	4	3
Social/Behavioral Science Elective	3	3
		17
SECOND SEMESTER		
BIO 112 General Biology II	6	4
ENG 114 Professional Research and Reporting	3	3
CHM 131 Introduction to Chemistry.....	3	3
CHM 131A Introduction to Chemistry Lab..	3	1
BTC 181 Basic Laboratory Techniques* .	6	4
		15

	Contact Hours	Semester Credit Hours
SUMMER TERM		
CHM 132 Organic and Biochemistry.....	6	4
BIO 275 Microbiology.....	6	4
		8
THIRD SEMESTER		
BTC 250 Principles of Genetics*.....	3	3
PHY 125 Health Science Physics*.....	5	4
OR		
PHY 151 College Physics I.....	5	4
BTC 281 Bioprocess Techniques*.....	8	4
BTC 285 Cell Culture*.....	5	3
		14
FOURTH SEMESTER		
BTC 286 Immunological Techniques*.....	6	4
BTC 288 Biotech Lab Experience*.....	6	2
BTC 270 Recombinant DNA Technology*.....	6	4
Humanities/Fine Arts Elective..	3	3
		13
Total Credit Hours:		67

*Offered at Pitt Community College only.

Business Administration (A25120)

Official Program Description registered with the NC Community College System:

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.

Program Learning Outcomes

Upon completion of the Business Administration program, a graduate should be able to:

- Apply the appropriate style of business management to a real world scenario.
- Prepare income tax returns.
- Apply generally accepted accounting principles to business transactions.
- Apply the principles of marketing in business.
- Compose effective business documents.
- Apply the appropriate business principles to a real world scenario.

Cooperative Education Option

The Cooperative Education Option is especially designed to provide qualified business administration students with an opportunity to combine the regular Business Administration curriculum with practical work experience. The combination of classroom instruction with practical/related Co-op work experience provides numerous benefits to participating students.

Career opportunities are enhanced as students completing this program graduate with practical work experience in addition to the Associate of Applied Science Degree. The program also provides an opportunity for the student to explore a career before making a

commitment to full-time employment. See the section on Cooperative Education program for eligibility criteria.

Degree Awarded

The Associate in Applied Science Degree - Business Administration is awarded by the College upon completion of this program.

For More Information

The Business Administration program is in the Business and Computer Technologies Division. For more information, call (919) 739-6880, send e-mail to etlegrand@waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- Placement tests are required in English, mathematics, reading, and computer skills to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
BUS 110 Introduction to Business.....	3	3
BUS 115 Business Law I.....	3	3
CIS 110 Introduction to Computers.....	4	3
ENG 111 Expository Writing.....	3	3
MKT 120 Principles of Marketing.....	3	3
		16
SECOND SEMESTER		
ACC 120 Principles of Financial Accounting	5	4
ACC 129 Individual Income Taxes.....	4	3
BUS 153 Human Resource Management	3	3
ENG 114 Professional Research and Reporting.....	3	3
MAT 115 Mathematical Models.....	4	3
		16
THIRD SEMESTER		
ACC 121 Prin. of Managerial Accounting	5	4
BUS 137 Principles of Management.....	3	3
BUS 240 Business Ethics.....	3	3
COE 110 World of Work.....	1	1
*Economics Elective.....	3	3
Humanities/Fine Arts Elective..	3	3
**Professional Elective.....		1-5
		18-20
FOURTH SEMESTER		
BUS 116 Business Law II.....	3	3
BUS 239 Bus Applications Seminar.....	3	2
BUS 260 Business Communication.....	3	3
MKT 220 Advertising and Sales.....	3	3
Social/Behavioral Science Elective.....	3	3
Professional Elective.....	-	1-5
		15-17
Total Credit Hours		67-69

*Select one of the following Economics Electives from the courses below:

- ECO 251 Principles of Microeconomics or ECO 252 Principles of Macroeconomics

*Select 4-6-semester hours of Professional Electives from the courses below:

- COE 111 and COE 122 or 112 and COE 121 must be completed in sequence to meet the Professional Elective requirement.
- Six semester hours of Cooperative Education Work Experience can be applied as Professional Electives.

		Contact Hours	Semester Credit Hours
ACC 140	Payroll Accounting	3	2
ACC 150	Accounting Software Tech	3	2
BUS 225	Business Finance	3	3
COE 111	Co-op Work Experience I.....	10	1
COE 121	Co-op Work Experience II.....	10	1
COE 131	Co-op Work Experience III.....	10	1
COE 211	Co-op Work Experience IV	10	1
COE 221	Co-op Work Experience V	10	1
COE 231	Co-op Work Experience VI	10	1
COE 112	Co-op Work Experience I.....	20	2
COE 122	Co-op Work Experience II.....	20	2
COE 132	Co-op Work Experience III.....	20	2

Business Administration Diploma (D25120)

Diploma Awarded

A diploma in Business Administration is awarded by the College upon completion of this program.

For More Information

The Business Administration program is in the Business and Computer Technologies Division. For more information, call (919) 739-6880, send e-mail to etlegrand@waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- Placement tests are required in English, mathematics, reading, and computer skills to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

		Contact Hours	Semester Credit Hours
FIRST SEMESTER			
ACA 111	College Student Success.....	1	1
BUS 110	Introduction to Business	3	3
BUS 115	Business Law I.....	3	3
BUS 137	Principles of Management	3	3
ENG 111	Expository Writing	3	3
MKT 120	Principles of Marketing	3	3
			16
SECOND SEMESTER			
CIS 110	Introduction to Computers	4	3
ENG 114	Professional Research and Reporting	3	3
MAT 115	Mathematical Models.....	4	3
	Social Science Elective.....	3	3
			12
THIRD SEMESTER			
ACC 120	Prin of Financial Accounting ...	5	4
ACC 129	Individual Income Taxes.....	4	3
BUS 240	Business Ethics	3	3
BUS 260	Business Communication	3	3
ECO 252	Prin of Macroeconomics	3	3
			16
	Total Credit Hours		44

Business Administration Certificate (C25120)

Certificate Awarded

A certificate in Business Administration is awarded by the College upon completion of this program.

For More Information

The Business Administration program is in the Business and Computer Technologies Division. For more information, call (919) 739-6880 or visit us at our web site at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
BUS 110	Introduction to Business	3
BUS 137	Principles of Management.....	3
CIS 110	Introduction to Computers	4
		9
SECOND SEMESTER		
BUS 115	Business Law I	3
BUS 153	Human Resource Management ...	3
MKT 120	Principles of Marketing.....	3
		9
	Total Credit Hours	18

Business Administration/Operations Management (A2512G)

Official Program Description registered with the NC Community College System:

Operations Management is a concentration under the curriculum title of Business Administration. This curriculum is designed to educate individuals in the technical and managerial aspects of operations for manufacturing and service industries.

Emphasized are analytical reasoning, team oriented problem solving, and continuous improvement concepts required in today's dynamic business and industry environments. Concepts include quality, productivity, organizational effectiveness, financial analysis, and the management of human, physical, information resources, lean manufacturing, and project management.

Graduates should qualify for leadership positions or enhance their professional skills in supervision, team leadership, operations planning, quality assurance, manufacturing and service management, logistics/distribution, health and safety, human resources management, and inventory/materials management.

Program Learning Outcomes

Upon completion of the Business Administration/Operations Management program, a graduate should be able to:

- Apply generally accepted accounting principles to business transactions.
- Employ the principles of marketing in business.
- Decide the appropriate style of business management in real world situations.
- Apply concepts of operations project planning and management.
- Select appropriate practices in operations management to manage a project.
- Apply accepted quality and lean initiatives to effectively control a process.

Degree Awarded

The Associate in Applied Science Degree - Business Administration/Operations Management is awarded by the College upon completion of this program.

For More Information

The Business Administration/Operations Management program is in the Applied Technology Division. For more information, call (919) 739-6815, send e-mail to fkeller@waynecc.edu, or visit us at our web site at www.waynecc.edu/opsmtg.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
BUS 137 Principles of Management	3	3
CIS 110 Introduction to Computers	4	3
ENG 111 Expository Writing	3	3
ISC 121 Environmental Health and Safety	3	3
OMT 110 Intro to Operations Management	3	3
		16
SECOND SEMESTER		
ACC 120 Principles of Financial Accounting	5	4
ENG 114 Prof Research and Reporting ..	3	3
ISC 132 Mfg. Quality Control	5	3
MAT 115 Mathematical Model.....	4	3
OMT 112 Material Management.....	3	3
		16
SUMMER TERM		
ISC 220 Lean Manufacturing	4	3
Humanities/Fine Arts Elective..	3	3
		6
THIRD SEMESTER		
ISC 210 Production and Operational Planning	3	3
OMT 135 FDA GMP Compliance.....	3	3
OMT 156 Problem-Solving Skills	3	3
OMT 218 Develop Team Performance	3	3
Social/Behavior Science Elective	3	3
		15
FOURTH SEMESTER		
BUS 115 Business Law I.....	3	3
ECO 252 Principles of Macroeconomics .	3	3
MKT 120 Principles of Marketing	3	3
OMT 222 Project Management.....	3	3
OMT 260 Issues in Operations Management	3	3
		15
Total Credit Hours		68

Business Administration/Operations Management Certificate (C2512G)

Certificate Awarded:

The Certificate in Operations Management is awarded by the College upon completion of this program.

For More Information:

The Business Administration/Operations Management program is in the Applied Technology Division. For more information, call (919)

739-6815, send e-mail to fkeller@waynecc.edu, or visit us at our web site at www.waynecc.edu/opsmtg.

Admissions:

- A high school diploma or equivalent is required.
- A placement test in mathematics and reading is required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ISC 121 Environmental Health and Safety	3	3
ISC 210 Production and Operational Planning	3	3
		7
SECOND SEMESTER		
ISC 132 Mfg. Quality Control	5	3
OMT 112 Material Management.....	3	3
OMT 260 Issues in Operations Management	3	3
		9
Total Hours		16

Collision Repair and Refinishing Technology (A60130)

Official Program Description registered with NC Community College System:

The Collision Repair and Refinishing Technology curriculum prepares individuals to become qualified technicians who possess the diverse skills required to perform quality repairs and proper refinishing techniques on automobile bodies and to diagnose and repair mechanical and electrical systems.

Coursework includes classroom and laboratory experiences that integrate technical application with academic theory. Emphasis is placed on autobody fundamentals, painting and refinishing, structural and non-structural damage repair, mechanical and electrical component repair or replacement, and common industry practices.

Graduates should be qualified to take National Institute for Automotive Service Excellence (ASE) certification examinations and also for entry-level employment in automotive dealerships, independent repair shops, or through self-employment, as collision repair and refinishing technicians.

Program Learning Outcomes

Upon completion of the Collision Repair and Refinishing Technology program, the graduate should be able to:

- Complete repairs related to ASE area B2 Painting and Refinishing.
- Complete repairs related to ASE area B3 Non-Structural Analysis and Damage Repair.
- Complete repairs related to ASE area B4 Structural Analysis and Damage Repair.
- Diagnosis and repair concerns related to ASE area B5 Mechanical and Electrical Components.

Diploma Awarded

The Associate in Applied Science - Collision Repair and Refinishing Technology is awarded by the College upon completion of the program.

For More Information

The Collision Repair and Refinishing Technology program is in the

Applied Technology Division. For more information, call (919) 739-6819 or 6934 visit us at our web site at www.waynecc.edu.

Admissions

A placement test in reading, writing, math and computer skills is required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
AUB 121 Non-Structural Damage I.....	5	3
AUB 131 Structural Damage I.....	6	4
AUB 134 Autobody MIG Welding.....	5	3
ENG 111 Expository Writing	3	3
	14	
SECOND SEMESTER		
AUB 122 Non-Structural Damage II.....	8	4
AUB 132 Structural Damage II.....	8	4
AUT 141 Suspension and Steering.....	5	3
CIS 110 Introduction to Computers.....	4	3
OR		
COE 112 Co-op Work Experience I	20	2
		13-14
SUMMER TERM		
AUB 136 Plastics and Adhesives.....	5	3
AUT 171 Automotive Climate Control.....	6	4
MAT 115 Mathematical Models.....	4	3
OR		
MAT 121 Algebra/Trigonometry.....	4	3
AUB 150 Automotive Detailing.....	4	2
OR		
COE 122 Co-op Work Experience I.....	20	2
		12
THIRD SEMESTER		
AUB 111 Painting and Refinishing.....	8	4
AUC 112 Auto Custom Fabrication.....	6	4
AUT 161 Basic Automotive Electricity.....	7	5
ENG 114 Prof Research and Reporting..	3	3
		16
FOURTH SEMESTER		
AUB 112 Painting and Refinishing II.....	8	4
AUB 114 Special Finishes.....	3	2
AUT 151 Brake Systems.....	5	3
Humanities/Fine Arts Elective..	3	3
Social/Behavioral		
Science Elective.....	3	3
		15
Total Hours		70-71

Collision Repair and Refinishing Technology Diploma (D60130)

Diploma Awarded

A Diploma in Collision Repair and Refinishing is awarded by the College upon completion of this program.

Note

Students are required to purchase tools, Personal Protective Equipment (PPE), and designated work attire. Approximate costs for these items can be obtained by calling the Autobody Repair department at (919) 739-6819 or (919) 739-6819 6821. Students are required to adhere to strict safety and ethical practices.

For More Information

The Collision Repair and Refinishing program is in the Applied Technology Division. For more information, call (919) 739-6819 or (919) 739-6819 6934 or visit us at our web site at www.waynecc.edu/autobody/.

Admission

A placement test in reading, math and computer skills is required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
AUB 111 Painting and Refinishing I.....	8	4
AUB 121 Non-Structural Damage I.....	5	3
AUB 131 Structural Damage I.....	6	4
AUB 134 Autobody Mig Welding.....	5	3
ENG 111 Expository.....	3	3
		18
SECOND SEMESTER		
AUB 112 Painting and Refinishing II.....	8	4
AUB 114 Special Finishes.....	3	2
AUB 122 Non-Structural Damage II.....	8	4
AUB 132 Structural Damage II.....	8	4
CIS 110 Introduction to Computers.....	4	3
COE 112 Co-op Work Experience I.....	20	2
		16-17
SUMMER TERM		
AUB 136 Plastics and Adhesives.....	5	3
AUT 171 Automotive Climate Control.....	6	4
MAT 115 Mathematical Models.....	4	3
OR		
MAT 121 Algebra/Trigonometry I.....	4	3
AUB 150 Detailing.....	4	2
OR		
COE 122 Co-op Work Experience II.....	20	2
		12
Total Credit Hours		46-47

Refinishing Certificate (C60130A)

Official Program Description registered with the NC Community College System:

The Refinishing curriculum provides training in the use of equipment and materials of the autobody repair trade. The student studies the techniques of autobody refinishing.

The course work includes autobody fundamentals, industry overview, and safety. Students will perform hands-on-repairs in the areas of refinishing, and other related areas.

Graduates of the curriculum should qualify for entry-level employment opportunities in the automotive body refinishing industry. Graduates may find employment with franchised independent garages, or they may become self-employed.

Certificate Awarded

A Certificate in Refinishing is awarded by the College upon completion of this program.

Note

Students are required to purchase tools, Personal Protective Equipment (PPE), and designated work attire. Approximate costs for

these items can be obtained by calling the Autobody Repair department at (919) 739-6819 or (919) 739-6821. Students are required to adhere to strict safety and ethical practices.

For More Information

The Repair program is in the Applied Technology Division. For more information, call (919) 739-6819 or (919) 739-6821 or visit us at our web site at www.waynecc.edu/autobody/.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AUB 111 Painting and Refinishing I.....	8	4
		4
SECOND SEMESTER		
AUB 112 Painting and Refinishing II.....	8	4
AUB 114 Special Finishes.....	3	2
		6
SUMMER TERM		
AUB 136 Plastics and Adhesives.....	5	3
		3
Total Credit Hours		13

Non-Structural Repair Certificate (C60130B)

Official Program Description registered with the NC Community College System:

The Non-Structural Repair curriculum provides training in the use of equipment and materials of the autobody repair trade. The student studies the construction of the automobile body and techniques of autobody repairing and rebuilding.

The course work includes autobody fundamentals, industry overview, and safety. Students will perform hands-on-repairs in the areas of non-structural repairs, mig welding, plastics and adhesives, and other related areas.

Graduates of the curriculum should qualify for entry-level employment opportunities in the automotive body and refinishing industry. Graduates may find employment with franchised independent garages, or they may become self-employed.

Certificate Awarded

A Certificate in Non-Structural Repair is awarded by the College upon completion of this program.

Note

Students are required to purchase tools, Personal Protective Equipment (PPE), and designated work attire. Approximate costs for these items can be obtained by calling the Autobody Repair department at (919) 739-6819 or 6821. Students are required to adhere to strict safety and ethical practices.

For More Information

The Autobody Repair program is in the Applied Technology Division. For more information, call (919) 739-6819 or 6821 or visit us at our web site at www.waynecc.edu/autobody/.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AUB 121 Non-Structural Damage I.....	5	3
AUB 134 Autobody Mig Welding.....	5	3
		6
SECOND SEMESTER		
AUB 122 Non-Structural Damage II.....	8	4
		4
SUMMER TERM		
AUB 136 Plastics and Adhesives.....	5	3
		3
Total Credit Hours		13

Structural Repair Certificate (C60130C)

Official Program Description registered with the NC Community College System:

The Structural Repair curriculum provides training in the use of equipment and materials of the autobody structural repair trade. The student studies the construction of the automobile body and techniques of autobody repairing and rebuilding.

The course work includes autobody fundamentals, industry overview, and safety. Students will perform hands-on-repairs in the areas of structural repairs, mig welding, and other related areas.

Graduates of the curriculum should qualify for entry-level employment opportunities in the automotive body and refinishing industry. Graduates may find employment with franchised independent garages, or they may become self-employed.

Certificate Awarded

A Certificate in Autobody Structural Repair is awarded by the College upon completion of this program.

Note

Students are required to purchase tools, Personal Protective Equipment (PPE), and designated work attire. Approximate costs for these items can be obtained by calling the Autobody Repair department at (919) 739-6819 or 6821. Students are required to adhere to strict safety and ethical practices.

For More Information

The Autobody Repair program is in the Applied Technology Division. For more information, call (919) 739-6819 or 6821 or visit us at our web site at www.waynecc.edu/autobody/.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6820.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AUB 131 Structural Damage I.....	6	4
AUB 134 Autobody Mig Welding.....	5	3
		7
SECOND SEMESTER		
AUB 132 Structural Damage II.....	8	4
AUT 141 Suspension and Steering Sys..	5	3
		7
Total Credit Hours		14

Computer Information Technology (A25260)

Official Program Description registered with the NC Community College System:

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 business, educational systems, and governmental agencies which rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

The Computer Information Technology curriculum at Wayne Community College is designed to train graduates to use the hardware and software of personal computers, providing graduates with the broad spectrum of skills needed to productively use small computers in organizational settings.

Program Learning Outcomes

Upon completion of the Computer Information Technology program, a graduate should be able to:

- Produce documents using current office suite software.
- Write computer programs using standard programming techniques.
- Complete a system support project from the definition phase through implementation.
- Solve common system-level problems using trouble-shooting skills.

Degree Awarded

The Associate in Applied Science Degree - Computer Information Technology is awarded by the College upon completion of this program.

Note

Individuals desiring a career in Computer Information Technology should if possible, take algebra, keyboarding, and computer applications courses prior to entering the program. Courses that require critical reading, and written and oral communications skills will also be valuable.

Though students are not required to own their own computer, it is strongly recommended. In addition to textbooks, students will be required to provide their own portable storage media, such as USB drives, for most classes.

For More Information

The Computer Information Technology program is in the Business and Computer Technologies Division. For more information, call (919) 739-6878, send e-mail to bull@wcc.waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- Placement tests in English, mathematics, reading, and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111	College Student Success.....	1 1
BUS 110	Introduction to Business	3 3
CIS 110	Introduction to Computers	4 3
COE 110	World of Work	1 1
ENG 111	Expository Writing	3 3

	Contact Hours	Semester Credit Hours
NOS 110	Operating Systems Concepts..	5 3
	Social/Behavioral Science	
	Elective	3 3
		17

SECOND SEMESTER

CIS 115	Introduction to Prog and Logic.	5 3
CTS 120	Hardware/Software Support	5 3
CTS 130	Spreadsheet	4 3
DBA 110	Database Concepts	5 3
ENG 114	Prof Research and Reporting ..	3 3
NOS 130	Windows Single User.....	4 3
		18

THIRD SEMESTER

CTS 230	Advanced Spreadsheet	4 3
CTS 285	Systems Analysis and Design..	3 3
DBA 115	Database Applications	4 3
NET 125	Networking Basics	5 3
NOS 230	Windows Admin I	4 3
SEC 110	Security Concepts.....	3 3
	*Major Elective.....	0-2
		18-20

FOURTH SEMESTER

CTS 118	IS Professional Comm	2 2
CTS 289	System Support Project	5 3
NOS 231	Windows Admin II	4 3
	Humanities/Fine Arts Elective ..	3 3
	Major Elective	1 3
	Math Elective	2-4 3-4
		18-20

Total Credit Hours 71-75

*Select 3 semester hours of Major Electives from the courses below:

COE 111	Co-op Work Experience I.....	10 1
COE 112	Co-op Work Experience I.....	20 2
COE 121	Co-op Work Experience II.....	10 1
COE 122	Co-op Work Experience II.....	20 2
COE 131	Co-op Work Experience III.....	10 1
CSC 151	Java Programming.....	5 3
NET 126	Routing Basics.....	5 3
NOS 120	Linux/UNIX Single User	4 3

*Select 3 semester hours of Math Electives from the courses below:

MAT 121	Algebra/Trigonometry I	4 3
MAT 140	Survey of Mathematics	3 3
MAT 161	College Algebra	3 3
MAT 161A	College Algebra Lab	2 1
MAT 171	Precalculus Algebra	3 3
MAT 171A	Precalculus Algebra Lab	2 1

Computer Information Technology - Diploma (D25260)

Diploma Awarded

A diploma in Computer Information Technology is awarded by the College upon completion of this program.

For More Information

The Computer Information Technology program is in the Business and Computer Technologies Division. For more information, call (919) 739-6878, send e-mail to bull@waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

- Placement tests in English, mathematics, reading, and computer skills are required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
ENG 111 Expository Writing	3	3
NET 125 Networking Basics	5	3
NOS 110 Operating System Concepts....	5	3
SEC 110 Security Concepts.....	3	3
		16

SECOND SEMESTER		
CIS 115 Intro to Prog and Logic	5	3
CTS 120 Hardware/Software Support	5	3
CTS 130 Spreadsheet	4	3
DBA 110 Database Concepts	5	3
ENG 114 Prof Research and Reporting ..	3	3
NOS 130 Windows Single User.....	5	3
		18

THIRD SEMESTER		
BUS 110 Introduction to Business	3	3
CTS 230 Advanced Spreadsheet	4	3
COE 110 World of Work	1	1
DBA 115 Database Applications	4	3
Major Elective		3
		13
Total Credit Hours		47

*Select 3 semester hours of Major Electives from the courses below:

COE 111 Co-op Work Experience I.....	10	1
COE 112 Co-op Work Experience I.....	20	2
COE 121 Co-op Work Experience II.....	10	1
COE 122 Co-op Work Experience II.....	20	2
COE 131 Co-op Work Experience III.....	10	1
CTS 285 Systems Analysis and Design..	3	3
NET 126 Routing Basics.....	5	3
NOS 120 Linux/Unix Single Use.....	4	3
NOS 230 Windows Admin I	4	3

Computer Information Technology - Certificate in Microcomputers/Systems Emphasis Certificate (C25260SY)

Certificate Awarded

A Certificate in Computer Information Technology - Microcomputers/Systems Emphasis is awarded by the College upon completion of this program.

For More Information

The Computer Information Technology program is in the Business and Computer Technologies Division. For more information, call (919) 739-6878, send e-mail to bull@waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
 - Placement test in math, reading (090) and computer skills are required to determine the entry-level courses that match the individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
NOS 110 Operating Systems Concepts .	5	3
		7
SECOND SEMESTER		
CTS 120 Hardware/Software Support ...	5	3
NOS 130 Windows Single User.....	4	3
		6
THIRD SEMESTER		
NET 125 Networking Basics	5	3
		3
Total Credit Hours		16

Computer Information Technology - Certificate in Software Applications Certificate (C25260SO)

Certificate Awarded

A certificate in Computer Information Technology - Software Applications is awarded by the College upon completion of this program.

For More Information

The Computer Information Technology program is in the Business and Computer Technologies Division. For more information, call (919) 739-6878, send e-mail to bull@waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
 - Placement test in math, reading (090) and computer skills are required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
		4
SECOND SEMESTER		
CTS 130 Spreadsheet	4	3
DBA 110 Database Concepts	5	3
		6
THIRD SEMESTER		
CTS 230 Advanced Spreadsheet	4	3
DBA 115 Database Applications	4	3
		6
Total Credit Hours		16

Computer-Integrated Machining (A50210)

Official Program Description registered with the NC Community College System:

The Computer-Integrated Machining 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 insure 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.

Program Learning Outcomes

Upon completion of the Computer Integrated Machining program, a graduate should be able to:

- Complete a part or parts using manual machines.
- Program, operate, and setup computer numerical control (CNC) machines.
- Manufacture a complex assembly to specification by using computer aided manufacturing (CAM) software, CNC and manual machine.

Degree Awarded

The Associate in Applied Science Degree Computer-Integrated Machining is awarded by the College upon completion of this program.

Note

Students are required to purchase a few specific tools. Costs are available by calling a Computer-Integrated Machining instructor at (919) 739-6806, (919) 739-6812, or (919) 739-6895.

For More Information

The Computer-Integrated Machining program is in the Applied Technology Division. For more information, call (919) 739-6806, (919) 739-6812, or (919) 739-6895. or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills is required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ENG 111 Expository Writing.....	3	3
MAC 121 Introduction to CNC	2	2
MAC 131 Blueprint Reading/Mach I	3	2
MAC 141 Machining Applications I	8	4
MAC 151 Machining Calculations	3	2
MAC 171 Measure Material Safety.....	2	1
MAC 172 Job Plan Bench and Layout....	2	1
		16
SECOND SEMESTER		
DFT 119 Basic CAD	3	2
MAC 122 CNC Turning	4	2
MAC 124 CNC Milling.....	4	2
MAC 132 Blueprint Reading/Mach II	3	2
MAC 142 Machining Applications II	8	4
Humanities/Fine Arts Elective..	3	3
		15
SUMMER TERM *		
CIS 110 Introduction to Computers	4	3
MAC 222 Advanced CNC Turning.....	4	2
MAC 224 Advanced CNC Milling.....	4	2
		7
THIRD SEMESTER		
MAC 143 Machining Applications III	8	4
MAC 160 Coordinate Measuring Machine	4	3
MAC 228 Advanced CNC Processes	5	3
MAT 121 Algebra/Trigonometry I	4	3
MEC 231 Comp-Aided Manufacturing I...	5	3
		16

FOURTH SEMESTER

	Contact Hours	Semester Credit Hours
ENG 114 Professional Research and Reporting	3	3
MAC 233 Appl. in CNC Machining.....	14	6
MEC 232 Comp-Aided Manufacturing II	5	3
Social/Behavioral Science Elective	3	3
**Professional Elective.....	2-20	2-4
		17-19
Total Credit Hours		71-73

* Students have an option of exiting the program after the second semester upon the completion of MAC 113 and a Professional Elective to receive a diploma in Machining Technology.

**Professional Electives may be taken after the second semester upon consulting with his/her academic advisor.

COE 111 Co-op Work Experience I.....	10	1
COE 112 Co-op Work Experience I.....	20	2
COE 121 Co-op Work Experience II.....	10	1
DFT 151 CAD I	5	3
MAC 114 Intro to Metrology.....	2	2
WLD 112 Basic Welding Processes	5	2
WLD 121 GMAW (MIG) Plate.....	8	4
WLD 131 GTAW (TIG) Plate.....	8	4

Computer-Integrated Machining Diploma (D50210)

Diploma Awarded

A diploma in Computer-Integrated Machining is awarded by the college upon completion of this program.

For More Information

The Computer-Integrated Machining program is in the Applied Technology Division. For more information, call (919)739-6806, 6812, or 6895 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills is required to determine entry-level courses that match individual needs.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ENG 111 Expository Writing	3	3
MAC 121 Introduction to CNC	2	2
MAC 131 Blueprint Reading/Mach I	3	2
MAC 141 Machining Applications I	8	4
MAC 151 Machining Calculations.....	3	2
MAC 171 Measure Material Safety.....	2	1
MAC 172 Job Plan Bench and Layout....	2	1
		16
SECOND SEMESTER		
DFT 119 Basic CAD	3	2
MAC 122 CNC Turning	4	2
MAC 124 CNC Milling.....	4	2
MAC 132 Blueprint Reading/Mach II	6	2
MAC 142 Machining Applications II	8	4
Humanities/Fine Arts Elective..	3	3
		15

	Contact Hours	Semester Credit Hours
SUMMER TERM		
CIS 110 Introduction to Computers	4	3
MAC 222 Advanced CNC Turning	4	2
MAC 224 Advanced CNC Milling	4	2
		7
Total Credit Hours		38

Computer-Integrated Machining - Basic Machining Certificate (C50210A)

Certificate Awarded

A certificate in Computer-Integrated Machining - Basic Machining is awarded by the College upon completion of this program.

For More Information

The Computer-Integrated Machining program is in the Applied Technology Division. For more information, call (919) 739-6806, (919) 739-6812, or (919) 739-6895 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
MAC 121 Introduction to CNC	2	2
MAC 131 Blueprint Reading/Mach I	3	2
MAC 141 Machining Applications	8	4
MAC 151 Machining Calculations	3	2
MAC 171 Measure Material Safety	2	1
MAC 172 Job Plan Bench and Layout	2	1
		12
Total Credit Hours		12

Computer-Integrated Machining - CNC Operator Certificate (C50210C)

Certificate Awarded

A certificate in Computer-Integrated Machining - CNC Operator is awarded by the College upon completion of this program.

For More Information

The Computer-Integrated Machining program is in the Applied Technology Division. For more information, call (919) 739-6806, (919) 739-6812, or (919) 739-6895 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
MAC 121 Introduction to CNC	2	2
MAC 131 Blueprint Reading/Mach I	3	2
MAC 171 Measure Material Safety	2	1
MAC 172 Job Plan Bench and Layout	2	1
		6
SECOND SEMESTER		
MAC 122 CNC Turning	4	2
MAC 124 CNC Milling	4	2
MAC 132 Blueprint Reading/Mach II	3	2
		6
Total Credit Hours		12

Computer-Integrated Machining - CNC Programming Certificate (C50210D)

Certificate Awarded

A certificate in Computer-Integrated Machining - CNC Programming is awarded by the College upon completion of this program.

For More Information

The Computer-Integrated Machining program is in the Applied Technology Division. For more information, call (919) 739-6806, (919) 739-6812, or (919) 739-6895 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
MAC 121 Introduction to CNC	2	2
MAC 131 Blueprint Reading/Mach I	3	2
MAC 141 Machining Applications	8	4
		8
SECOND SEMESTER		
MAC 122 CNC Turning	4	2
MAC 124 CNC Milling	4	2
		4
SUMMER TERM		
MAC 222 Advanced CNC Turning	4	2
MAC 224 Advanced CNC Milling	4	2
		4
Total Credit Hours		16

Computer-Integrated Machining - Computer-Aided Manufacturing Certificate (C50210F)

Certificate Awarded

A certificate in Computer-Integrated Machining - Computer-Aided Manufacturing Certificate is awarded by the College upon completion of this program.

For More Information

The Computer-Integrated Machining program is in the Applied Technology Division. For more information, call (919) 739-6806, (919) 739-6812, or (919) 739-6895 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
MAC 121 Introduction to CNC	2	2
MAC 131 Blueprint Reading/Mach I	3	2
MAC 141 Machining Applications	8	4
MEC 231 Comp-Aided Mfg I	5	3
		11
SECOND SEMESTER		
DFT 119 Basic CAD	3	2
MEC 232 Comp-Aided Mfg. II	10	3
		5
Total Credit Hours		16

Computer-Integrated Machining - Coordinate Measuring Machine Certificate (C50210E)

Certificate Awarded

A certificate in Computer-Integrated Machining - Coordinate Measuring Machine is awarded by the College upon completion of this program.

For More Information

The Computer-Integrated Machining program is in the Applied Technology Division. For more information, call (919) 739-6806, (919) 739-6812, or (919) 739-6895 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
MAC 131 Blueprint Reading/Mach I	3	2
MAC 171 Measure Material Safety.....	2	1
MAC 172 Job Plan Bench and Layout.....	2	1
MAC 151 Machining Calculations.....	3	2
		6
SECOND SEMESTER		
DFT 119 Basic CAD	3	2
MAC 132 Blueprint Reading/Mach II	3	2
		4
THIRD SEMESTER		
MAC 160 Coordinate Measuring Machine	4	3
		3
Total Credit Hours		13

Computer-Integrated Machining - Intermediate Machining Certificate (C50210B)

Certificate Awarded

A certificate in Computer Integrated Machining - Intermediate Machining is awarded by the College upon completion of this program.

For More Information

The Computer-Integrated Machining program is in the Applied Technology Division. For more information, call (919) 739-6806, (919) 739-6812, or (919) 739-6895 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
MAC 171 Measure Material Safety.....	2	1
MAC 172 Job Plan Bench and Layout.....	2	1
		2
SECOND SEMESTER		
MAC 132 Blueprint Reading/Mach II	3	2
MAC 142 Machining Applications II	8	4
		6
SUMMER TERM		
MAC 143 Machining Applications III	8	4
		4
Total Credit Hours		12

Cosmetology Diploma (D55140)

Official Program Description registered with the NC Community College System:

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 as cosmetologists, skin/nail specialists, and platform artists in beauty salons and other related businesses.

Program Learning Outcomes

Upon successful completion of the Cosmetology Program, the graduate will be able to:

- Apply the rules, regulations, and safety principles common to all branches of cosmetology.
- Demonstrate a fundamental understanding of trichology (structure of hair, hair type, hair-growth phases).
- Perform shampoos, styling, haircuts, hair colors, perms, hair straightening and relaxing with a working knowledge of the proper techniques.
- Perform manicures, pedicures, and skin-care services with a working knowledge of the proper techniques.
- Demonstrate critical reasoning and problem solving abilities, communication skills as well as professional and ethical concerns as applied to the cosmetology profession.

Diploma Awarded

A Diploma in Cosmetology is awarded by the College upon completion of this program. Graduates are eligible to take the examination to become a Cosmetologist that is given by the State Board of Cosmetic Arts.

Program Accreditation

The Cosmetology curriculum has been approved by the National Accrediting Commission of Cosmetology Arts and Sciences. Annually the Cosmetology program is licensed by the NC State Board of Cosmetic Arts.

Note

Students are required to purchase uniforms, supplies and materials. Classroom activities and the simulated salon environment are located at Mitchell's Hairstyling Academy.

For More Information

The Cosmetology program is in the Business and Computer Technologies Division. Additional information can be obtained by calling (919) 739-6894, or visit us at our web site at www.waynecc.edu/cj/.

Admissions

- A high school diploma or equivalent is required.
- A placement test in reading is required. Students must meet a minimum requirement demonstrated by the placement test score or completion of RED 080, Introduction to College Reading.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
COS 111 Cosmetology Concepts I.....	4	4
COS 112 Salon I.....	24	8
COS 250 Computerized Salon Ops.....	1	1
ENG 102 Applied Communication II.....	3	3
		16
SECOND SEMESTER		
COS 113 Cosmetology Concepts II.....	4	4
COS 114 Salon II.....	24	8
COS 115A Cosmetology Concepts III.....	2	2
COS 116A Salon III.....	6	2
		16
THIRD SEMESTER		
COS 115B Cosmetology Concepts III	2	2
COS 116B Salon III	6	2
COS 117 Cosmetology Concepts IV	2	2
COS 118 Salon IV	21	7
HUM 110 Technology and Society.....	3	3
		16
Total Credit Hours		48

Cosmetology - Certificate (C55140)

Certificate Awarded

A Certificate in Cosmetology is awarded by the College upon completion of this program. Graduates are eligible to take the examination to become a Cosmetologist that is given by the State Board of Cosmetic Arts.

Program Accreditation

The Cosmetology curriculum has been approved by the National Accrediting Commission of Cosmetology Arts and Sciences. Annually the Cosmetology program is licensed by the NC State Board of Cosmetic Arts.

Note

Students are required to purchase uniforms, supplies and materials. Classroom activities and the simulated salon environment are located at Mitchell's Hairstyling Academy.

For More Information

The Cosmetology program is in the Business and Computer Technologies Division. Additional information can be obtained by calling (919) 739-6894.

Admissions

- A high school diploma or equivalent is required.
- A placement test in reading or attainment of minimum scores on the SAT or ACT is required. Students must meet a minimum requirement demonstrated by the placement test score or completion of RED 080, Introduction to College Reading.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
COS 111 Cosmetology Concepts I.....	4	4
COS 112 Salon I.....	24	8
		12
SECOND SEMESTER		
COS 113 Cosmetology Concepts II.....	4	4
COS 114 Salon II.....	24	8
COS 115A Cosmetology Concepts III.....	2	2
COS 116A Salon III.....	6	2
		16

	Contact Hours	Semester Credit Hours
SUMMER SEMESTER		
COS 115B Cosmetology Concepts III	2	2
COS 116B Salon III	6	2
COS 117 Cosmetology Concepts IV	2	2
		6
Total Credit Hours		34

NOTE: It is also recommended that students take COS 118 (Salon IV) (7 hours credit) to receive the hours needed to sit for the state licensure exam.

Criminal Justice Technology (A55180)

Official Program Description registered with the N.C. Community College System:

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.

Program Learning Outcomes

Upon completion of the Criminal Justice program, a graduate should be able to:

- Identify deviant behavior from a criminological and sociological perspective.
- Demonstrate critical reasoning, problem solving, and ethical concerns in criminal justice.
- Describe how criminal law is related to the diversity of people and cultures within society.
- Explore various professions in criminal justice.
- Investigate a crime scene using legal procedures.

Degree Awarded

The Associate in Applied Science Degree - Criminal Justice Technology is awarded by the College upon completion of this program.

For More Information

The Criminal Justice Technology program is in the Public Safety Division. Additional information can be obtained by calling (919) 739-6800, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CJC 111 Introduction to Criminal Justice	3	3
CJC 121 Law Enforcement Operations ..	3	3

	Contact Hours	Semester Credit Hours
ENG 111 Expository Writing	3	3
POL 130 State and Local Government..	3	3
SOC 210 Introduction to Sociology	3	3
		16
SECOND SEMESTER		
CIS 110 Introduction to Computers	4	3
CJC 112 Criminology	3	3
CJC 141 Corrections	3	3
CJC 212 Ethics and Comm Relations ...	3	3
ENG 113 Literature-Based Research.....	3	3
Humanities/Fine Arts Elective..	3	3
		8
SUMMER TERM		
PSY 150 General Psychology.....	3	3
		3
THIRD SEMESTER		
CJC 132 Court Procedures.....	3	3
CJC 213 Substance Abuse.....	3	3
CJC 225 Crisis Intervention	3	3
CJC 215 Organization and Administration	3	3
MAT 115 Mathematical Models.....	4	3
OR		
MAT 140 Survey of Mathematics	3	3
Major Elective	3	3
		18
FOURTH SEMESTER		
CJC 221 Investigative Principles	5	4
CJC 113 Juvenile Justice	3	3
CJC 131 Criminal Law	3	3
CJC 231 Constitutional Law	3	3
HEA 112 First Aid and CPR	3	2
		15
Total Credit Hours		70
Major Electives - Select one course:		
CJC 160 Terrorism: Underlying Issues ...	3	3
CJC 170 Critical Incident Management for Public Safety.....	3	3
CJC 232 Civil Liabilities	3	3
CJC 255 Issues in Criminal Justice Applications	3	3
PSY 281 Abnormal Psychology	3	3
SOC 220 Social Problems.....	3	3
SOC 230 Race and Ethnic Relations	3	3

Criminal Justice Technology - Management Certificate (C55180)

Certificate Awarded

A certificate in Criminal Justice Technology - Management is awarded by the College upon completion of this program.

For More Information

The Criminal Justice Technology program is in the Public Safety Division. For more information, call (919) 739-6800 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
CJC 111 Intro to Criminal Justice	3	3
CJC 131 Criminal Law	3	3
CJC 212 Ethics and Community Relations	3	3
CJC 231 Constitutional Law	3	3
		12
SECOND SEMESTER		
CJC 170 Critical Incident Mgmt	3	3
CJC 232 Civil Liability.....	3	3
		6
Total Credit Hours		18

Criminal Justice Technology/Latent Evidence (A5518A)

Latent Evidence is a concentration under the curriculum of Criminal Justice Technology. This curriculum is designed to provide knowledge of latent evidence systems and operations. Study will focus on local, state, and federal law enforcement, evidence processing and procedures.

Students will learn both theory and hands-on analysis of latent evidence. They will learn fingerprint classification, identification, and chemical development. Students will record, cast, and recognize footwear and tire-tracks; and process crime scenes. Issues and concepts of communications and the use of computers and computer assisted design programs in crime scene technology will be discussed.

Graduates should qualify for employment in a variety of criminal justice organizations especially in local, state, and federal law enforcement, and correctional agencies.

Program Learning Outcomes

Upon completion of the Criminal Justice/Latent Evidence program, a graduate should be able to:

- Identify deviant behavior from a criminological and sociological perspective.
- Demonstrate critical reasoning, problem solving, and ethical concerns in criminal justice.
- Describe the services of a typical comprehensive crime laboratory.
- Identify and compare ridge characteristics in the same relative position between two impression evidence.
- Investigate a crime scene using legal procedures.

Degree Awarded

The Associate in Applied Science Degree - Criminal Justice Technology/Latent Evidence is awarded by the College upon completion of this program.

For More Information

The Criminal Justice Technology program is in the Public Safety Division. Additional information can be obtained by calling (919) 739-6800, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
CJC 111 Introduction to Criminal Justice..	3	3
CJC 144 Crime Scene Processing	5	3
CJC 225 Crisis Intervention	3	3
ENG 111 Expository Writing	3	3
		16
SECOND SEMESTER		
CJC 113 Juvenile Justice	3	3
CJC 146 Trace Evidence	5	3
CJC 221 Investigative Principles	5	4
CJC 231 Constitutional Law	3	3
CJC 250 Forensic Biology I	4	3
		16
SUMMER TERM		
ENG 113 Literature-Based Research.....	3	3
MAT 115 Mathematical Models.....	4	3
		6
THIRD SEMESTER		
CJC 114 Investigative Photography	3	2
CJC 120 Interviews/Interrogations.....	3	2
CJC 245 Friction Ridge Analysis	5	3
PSY 150 General Psychology.....	3	3
Humanities/Fine Arts Elective..	3	3
		13
FOURTH SEMESTER		
CJC 112 Criminology.....	3	3
CJC 131 Criminal Law	3	3
CJC 212 Ethics and Comm Relations	3	3
CJC 246 Advance Friction Ridge Analysis..	5	3
CJC 255 Issues in Criminal Justice Apps	3	3
		15
Total Credit Hours		66

Criminal Justice Technology/Latent Evidence Certificate (C5518A)

Certificate Awarded

A certificate in Criminal Justice Technology/Latent Evidence is awarded by the College upon completion of this program.

For More Information

The Criminal Justice Technology/Latent Evidence program is in the Public Safety Division. For more information, call (919) 739-6800 or visit us at our web site at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 735-5151 ext. 6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
CJC 114 Investigative Photography	3	2
CJC 120 Interviews/Interrogations.....	3	2
CJC 245 Friction Ridge Analysis	5	3
CJC 144 Crime Scene Processing	5	3
		10

	Contact Hours	Semester Credit Hours
SECOND SEMESTER		
CJC 146 Trace Evidence	5	3
CJC 246 Advance Friction Ridge Analysis	5	3
		6
Total Semester Hours		16

Dental Assisting Diploma (D45240)

Official Program Description registered with the NC Community College System:

The Dental Assisting curriculum prepares graduates to assist the dentist in providing treatment services. Functions performed by the dental assistant include dental health education, preparing dental materials, preparing the patient for treatment, taking dental X-rays, maintaining dental supplies and equipment, assisting the dentist, providing selected services for the patient, making appointments, maintaining patient records and other office management procedures. Graduates may be employed by dental offices, dental clinics, public health clinics, federal service clinics, dental schools, state health departments, dental manufacturers and insurance companies.

Graduates are eligible to take the examination given by the Dental Assisting National Board, Incorporated, to become a Certified Dental Assistant.

Functions performed by the dental assistant include dental health education, preparing dental materials, preparing the patient for treatment, taking dental X-rays, maintaining dental supplies and equipment, assisting the dentist, providing selected services for the patient, making appointments, maintaining patient records and other office management procedures. Graduates may be employed by dental offices, dental clinics, public health clinics, federal service clinics, dental schools, state health departments, dental manufacturers and insurance companies.

Program Learning Outcomes

Upon successful completion of the Dental Assisting program, the graduate should be able to:

- Demonstrate professionalism with patients, students, faculty, and dental professionals/staff.
- Perform dental assisting skills and procedures in the clinical and laboratory setting utilizing proper infection control and safety practices.
- Perform dental administrative management procedures.
- Perform dental radiographic procedures.
- Provide dental health related education with appropriate patient assessment.

Diploma Awarded

A Diploma in Dental Assisting is awarded by the College upon completion of this program. Graduates are eligible to take the examination to become a Certified Dental Assistant that is given by the Dental Assisting National Board, Incorporated.

Note

Students must earn a grade of C or better in all curriculum courses in order to progress in the program.

Information about the progression and readmission policy is outlined in the Dental Assisting Admission Policies and Procedures packet available on Wayne Community College's website at www.waynecc.edu/alliedhealth/dental-assisting.pdf.

In addition to tuition and textbooks, costs of this program include a laboratory fee, shoes, physical examinations, immunizations, health insurance, cost of national board examination and other miscellaneous fees.

For More Information

The Dental Assisting program is in the Allied Health and Public

Services Division. For more information, call (919) 739-6773 or visit us at our web site at www.waynecc.edu.

Admissions

- Individuals desiring a career in dental assisting should, if possible, take biology, mathematics, English, humanities, and psychology courses prior to entering the program.

- Individuals desiring admission to the program must follow the admissions procedure outlined on pages 9 and 10 of this catalog and in the Dental Assisting Application Policies and Procedures packet available in the Office of Admissions and Records and on the WCC website.

- Applicants must present evidence of good physical and mental health.

Students must demonstrate competency in computer skills by attaining a minimally acceptable score (78) on the CIS 070 placement test or completion of CIS 070 or CTS 080 with a grade of "C" or better to apply to the program.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
DEN 100 Basic Orofacial Anatomy.....	2	2
DEN 101 Preclinical Procedures	10	7
DEN 102 Dental Materials.....	7	5
DEN 111 Infection/Hazard Control.....	2	2
BIO 106 Introduction to Anat/ Physio/Micro	4	3 20
SECOND SEMESTER		
DEN 103 Dental Sciences.....	2	2
DEN 104 Dental Health Education.....	4	3
DEN 105 Practice Management.....	2	2
DEN 106 Clinical Practice I.....	13	5
DEN 112 Dental Radiography.....	5	3
ENG 102 Applied Communications II.....	3	3 18
SUMMER TERM		
DEN 107 Clinical Practice II.....	13	5
PSY 150 General Psychology.....	3	3 8
Total Credit Hours		46

Dental Hygiene (A45260)

Official Program Description registered with the N. C. Community College System:

The Dental Hygiene curriculum prepares graduates to take patient histories, teach oral hygiene, clean teeth, take X-rays and apply preventive agents under the supervision of a dentist. Dental hygienists may be employed in dentists' offices, clinics, schools, public health agencies, industry and educational institutions.

Program Learning Outcomes

Upon completion of the Dental Hygiene program, a graduate should be able to:

- Perform assessments and dental prophylaxis on patients with differing levels of dental health at increasingly higher levels of competency with proper infection control.
- Perform dental radiographic procedures including bitewings, full mouth series, and panoramic views on the DXTR simulator and patients with proper infection control.
- Assess, plan, implement and evaluate appropriate dental health

prevention and/or education services to diverse patients and groups.

- Perform dental clinic/office support duties.
- Maintain required medical/legal documentation in accordance with the North Carolina Dental Practice Act.
- Demonstrate professionalism with patients, faculty, peers, community organizations and dental associations.

Degree Awarded

The Associate in Applied Science Degree-Dental Hygiene is awarded by the College upon completion of this program.

Graduates are eligible to take the National Board Dental Hygiene Examination, which is administered by the American Dental Association, Joint Commission on Dental Examinations; and the Regional Clinical Exam, which is administered by the Council of Interstate Testing Agencies. A passing grade on both examinations is required in order to apply to the State Board of Dental Examiners for licensure and become a Registered Dental Hygienist in North Carolina.

Program Accreditation

The Dental Hygiene program is accredited by the Commission on Dental Accreditation of the American Dental Association.

Note

Students must earn a grade of C or better in all curriculum courses in order to progress in the program. Information about the progression and readmission policy is outlined in the dental Hygiene Admission Policies and Procedures packet available in the Office of Admissions and Records.

In addition to tuition and textbooks, costs of this program include a laboratory fee, shoes, instruments, physical and dental examinations, immunizations, health insurance, cost of licensure exams and miscellaneous other fees.

For More Information

The Dental Hygiene program is in the Allied Health and Public Services Division. For more information, call (919) 739-6773 or visit us at our web site at www.waynecc.edu.

Admissions

- Individuals desiring a career in Dental Hygiene should take biology, algebra, and chemistry courses prior to entering the program.

- Individuals seeking admission to the program must follow the admissions procedures outlined on pages 9 and 10 of this catalog and in the Dental Hygiene Application Policies and Procedures packet available on the WCC website, at www.waynecc.edu/alliedhealth/dentalhygiene.pdf

- Applicants must present evidence of good physical and mental health.

- Students must demonstrate competency in computer skills by attaining a minimally acceptable score (78) on CIS 070 placement test or completion of CIS 070 or CTS 080 with a grade of "C" or better prior to applying to the program.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
DEN 120 Dental Hygiene Preclinical Lecture.....	2	2
DEN 121 Dental Hygiene Preclinical Lab.....	6	2
DEN 110 Orofacial Anatomy	4	3
DEN 111 Infection/Hazard Control.....	2	2
DEN 112 Dental Radiography	5	3
CHM 130 General, Organic and Biochemistry	3	3

	Contact Hours	Semester Credit Hours
CHM 130A Lab.....	3	1
		17
SECOND SEMESTER		
DEN 123 Nutrition/Dental Health.....	2	2
DEN 124 Periodontology.....	2	2
DEN 130 Dental Hygiene Theory I.....	2	2
DEN 131 Dental Hygiene Clinic I.....	9	3
DEN 223 Dental Pharmacology.....	2	2
BIO 168 Anatomy and Physiology I.....	6	4
ENG 111 Expository Writing.....	3	3
		18
SUMMER TERM		
DEN 140 Dental Hygiene Theory II.....	1	1
DEN 141 Dental Hygiene Clinic II.....	6	2
BIO 169 Anatomy and Physiology II.....	6	4
		7
THIRD SEMESTER		
DEN 220 Dental Hygiene Theory III.....	2	2
DEN 221 Dental Hygiene Clinic III.....	12	4
DEN 222 General and Oral Pathology....	2	2
DEN 224 Materials and Procedures.....	4	2
BIO 175 General Microbiology.....	4	3
ENG 114 Professional Research and Reporting.....	3	3
		16
FOURTH SEMESTER		
DEN 230 Dental Hygiene Theory IV.....	1	1
DEN 231 Dental Hygiene Clinic IV.....	12	4
DEN 232 Community Dental Health.....	5	3
DEN 233 Professional Development.....	2	2
PSY 150 General Psychology.....	3	3
Humanities/Fine Arts Elective..	3	3
		16
Total Credit Hours		74

Early Childhood Education (A55220)

Official Program Description registered with the NC Community College System:

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.

Program Learning Outcomes

Upon completion of the Early Childhood Education program, a graduate should be able to:

- Create learning environments that are healthy, respectful, supportive and challenging for all children.
- Design and implement developmentally effective curriculum that addresses all domains of learning.

- Establish trusting and respectful reciprocal relationships with all children, families and communities.
- Use authentic assessment responsibly to make informed decisions to guide all children's learning.
- Communicate effectively using standard written and verbal skills.
- Utilize technology to enhance learning for all children.
- Demonstrate leadership, advocacy and professionalism in the field of early education.

Degree Awarded

The Associate in Applied Science Degree - Early Childhood Education is awarded by the College upon completion of this program.

Note

Upon successful completion of EDU 119, the student is qualified to receive the North Carolina Child Care Credential.

For More Information

The Early Childhood Education program is in the Allied Health and Public Services Division, for more information call (919) 739-6795, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.
- Students selecting a science course must also meet the requirements for DMA 010 through DMA 050 through the Math diagnostic test or course completion prior to receiving a degree.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
EDU 119 Intro to Early Child Educ.....	4	4
EDU 131 Child Family and Community...	3	3
EDU 144 Child Development I.....	3	3
EDU 162 Observation and Assessment..	3	3
ENG 111 Expository Writing.....	3	3
		17
SECOND SEMESTER		
CIS 110 Introduction to Computers.....	4	3
EDU 145 Child Development II.....	3	3
EDU 151 Creative Activities.....	3	3
EDU 151A Creative Activities Lab.....	2	1
EDU 153 Health, Safety, and Nutrition....	3	3
EDU 184 Early Childhood Intro Pract.....	4	2
Humanities/Fine Arts Elective..	3	3
		18
SUMMER TERM		
EDU 146 Child Guidance.....	3	3
*EDU Elective.....	3	3
		6
THIRD SEMESTER		
EDU 251 Exploration Activities.....	3	3
EDU 271 Educational Technology.....	4	3
EDU 280 Language and Literacy Exper..	3	3
EDU 280A Literacy Experiences Lab.....	2	1
*EDU Elective.....	3	3
Math or Natural Science Elec..	3-4	3-4
		16-17

FOURTH SEMESTER			Contact Hours	Semester Credit Hours
EDU 221	Children w/Exceptionalities.....	3	3	
EDU 259	Curriculum Planning	3	3	
EDU 284	Early Childhood Capstone Practicum.....	10	4	
ENG 114	Prof Research and Reporting ..	3	3	
PSY 150	General Psychology.....	3	3	
			16	
Total Credit Hours			73-74	

Required Subject Area Sets

*EDU Elective:

EDU 222	Learning w/Behav Disorders....	3	3
EDU 223	Specific Learning Disabilities ...	3	3
EDU 234	Infants, Toddlers, and Twos	3	3
EDU 235	School-Age Child Dev. and Prog	3	3
EDU 247	Sensory and Physical Disab	3	3
EDU 248	Developmental Delays.....	3	3
EDU 261	Early Childhood Admin I	3	3
EDU 262	Early Childhood Admin II	3	3
EDU 282	Early Childhood Literature	3	3
EDU 287	Leadership/Early Childhood Ed	3	3

*MAT and Natural Science Requirement

Students must demonstrate competency in Math Skills by completion of DMA 010 through DMA 050 with a minimum grade of P or equivalent scores for DMA 010 through DMA 050 on Math diagnostic test or equivalent course work with C or better.

Math or Natural Science Elective:

MAT 110	Mathematical Measurement
MAT 115	Mathematical Models
BIO 110	Principles of Biology

Early Childhood Administrator's Certificate (C55220A)

Official Program Description registered with the NC Community College System:

The Early Childhood Administrator's Certificate prepares students to become or continue as Administrators in Early Childhood programs. Successful completion of EDU 261 and EDU 262 plus 7 additional hours of early childhood courses, qualifies the student to receive the NC Administrator's Credential.

All courses in this certificate will apply to the AAS Degree.



Certificate Awarded

An Early Childhood Administrator's Certificate is awarded by the College upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
 - Placement tests in reading and mathematics are required to determine entry-level courses. Students must meet the following scores through the placement test or course completion prior to receiving the certificate.

	ASSET	ACCUPLACER/CPT	COMPASS	COURSE
1. Reading	42	80	80	RED 090
2. Numerical	41	55	44	DMA 010 through DMA 030

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
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FIRST SEMESTER

EDU 119	Intro to Early Childhood Ed.....	4	4
EDU 144	Child Development I	3	3
OR			
EDU 153	Health, Safety and Nutrition.....	3	3
EDU 261	Early Childhood Administration I	3	3
			10

SECOND SEMESTER

EDU 145	Child Development II	3	3
OR			
EDU 146	Child Guidance	3	3
EDU 262	Early Childhood Administration II	3	3
OR			
EDU 114	Intro to Family Child Care	3	3
			6

Total Credit Hours	16
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Early Childhood Certificate (C55220B)

Official Program Description registered with the NC Community College System:

The Early Childhood Certificate prepares students to become or continue as Lead Teachers in Early Childhood programs. Successful completion of EDU 119 qualifies the student to receive the NC Early Childhood Credential.

All courses in this certificate will apply to the AAS Degree.

Certificate Awarded

An Early Childhood Certificate is awarded by the College upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
 - Placement tests in reading and mathematics are required to determine entry-level courses. Students must meet the following scores through the placement test or course completion prior to receiving the certificate.

	ASSET	ACCUPLACER/CPT	COMPASS	COURSE
1. Reading	42	80	80	RED 090
2. Numerical	41	55	44	DMA 010 through DMA 030

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
EDU 119 Intro to Early Childhood	4	4
EDU 144 Child Development I	3	3
		7
SECOND SEMESTER		
EDU 145 Child Development II	3	3
EDU 153 Health, Safety and Nutrition.....	3	3
EDU 146 Child Guidance	3	3
		9
Total Credit Hours		16

Early Childhood Special Needs Certificate (C55220C)

Official Program Description registered with the NC Community College System:

This curriculum is designed to prepare early childhood educators to recognize children with typical and atypical developmental needs and plan appropriate care and education to meet their needs.

Course work includes child development, observation and assessment, and an introduction to children with exceptionalities. Specific courses in behavioral disorders, learning disabilities, sensory and physical disabilities, and developmental delays are also included.

Students should be able to plan and implement developmentally appropriate experiences that stimulate all young children's development and learning, provide an optimal learning environment that is safe and healthy, provide positive guidance for all children, and communicate effectively with the children, co-workers, and parents.

Program Learning Outcomes

Upon successful completion of the Early Childhood Special Needs Certificate program, a graduate should be able to:

- Apply selected theories and concepts of child development to the education of all young children including those with atypical development.
- Plan and implement developmentally appropriate experiences that stimulate all young children's development and learning.
- Provide an optimal learning environment for all young children.
- Establish and maintain a safe and healthy environment for all young children.
- Provide positive guidance for all young children.
- Communicate effectively with all children, co-workers, and parents.

Certificate Awarded

The Early Childhood Special Needs Certificate is awarded by the College upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
 - Placement tests in reading and mathematics are required to determine entry-level courses. Students must meet the following scores through the placement test or course completion prior to receiving the certificate.

	ASSET	ACCUPLACER/CPT	COMPASS	COURSE
1. Reading	42	80	80	RED 090
2. Numerical	41	55	44	DMA 010 through DMA 030

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
EDU 144 Child Development I	3	3
EDU 145 Child Development II	3	3
EDU 162 Observ and Assess in ECE.....	3	3
		9
SECOND SEMESTER		
EDU 221 Children w/Exceptionalities.....	3	3
Choose one course from the following (3 hours):		
EDU 222 Learning with Behav Disorders	3	3
OR		
EDU 223 Specific Learning Disabilities...	3	3
		6
SUMMER TERM		
Choose one course from the following (3 hours):		
EDU 247 Sensory and Physical Disabilities	3	3
OR		
EDU 248 Developmental Delays.....	3	3
		3
Total Credit Hours		18

Infant/Toddler Care Certificate (C55290)

Official Program Description registered with the NC Community College System:

The curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with infants and toddlers. Course work includes infant/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 families and children; design and 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.

Program Learning Outcomes

Upon completion of the Infant/Toddler Care Certificate program, a graduate should be able to:

- Plan and implement developmentally appropriate environments/activities for the infant/toddler

Certificate Awarded

An Infant/Toddler Care Certificate is awarded by the College upon completion of this program.

Admissions

- A high school diploma or equivalent is required.
 - Placement tests in reading and mathematics are required to determine entry-level courses. Students must meet the following scores through the placement test or course completion prior to receiving the certificate.

	ASSET	ACCUPLACER/CPT	COMPASS	COURSE
1. Reading	42	80	80	RED 090
2. Numerical	41	55	44	DMA 010 through DMA 030

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
EDU 119 Intro to Early Childhood Ed.....	4	4
EDU 144 Child Development I	3	3
EDU 131 Child, Family and Community..	3	3
		10
SECOND SEMESTER		
EDU 153 Health, Safety, and Nutrition	3	3
EDU 234 Infant, Toddlers, and Twos.....	3	3
		6
Total Semester Hours		16

Electronics Engineering Technology (A40200)

Official Program Description registered with the NC Community College System:

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, analog devices, digital concepts, programmable logic controllers (PLCs), and robotics, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

Program Learning Outcomes

Upon completion of the Electronics Engineering Technology program, a graduate should be able to:

- Analyze electronic diagrams and schematics.
- Design and construct electronic circuits.
- Troubleshoot and test electronic circuits.
- Effectively operate electronic circuit simulation software.
- Use laboratory equipment to measure and model electronic circuits.
- Analyze electronic control systems

Degree Awarded

The Associate in Applied Science Degree-Electronics Engineering Technology is awarded by the College upon completion of this program.

Note

Students are required to purchase electronic materials which will cost approximately \$200. These materials are purchased over a two year period. The materials list is available by calling an Electronics Engineering Technology instructor at (919) 739-6817.

For More Information

The Electronics Engineering Technology program is in the Applied Technology Division. For more information, call (919) 739-6817 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
EGR 110 Intro to Engineering Tech.....	3	2
ELC 125 Diagrams and Schematics.....	3	2
ELC 127 Software for Technicians.....	4	2
ELC 131 DC/AC Circuit Analysis	7	5
ENG 111 Expository Writing	3	3
		15
SECOND SEMESTER		
ELC 120 Intro to Wiring	4	3
ELN 133 Digital Electronics	6	4
ELN 137 Electr Devices and Circuits.....	7	5
MAT 121 Algebra/Trigonometry I	4	3
		OR
MAT 171 Precalculus Algebra	3	3
	3	3
		18
SUMMER TERM		
ENG 114 Professional Research and Writing	3	3
PCI 162 Instrumentation Controls.....	5	3
	Social/Behavioral Science Elective	3
		9
THIRD SEMESTER		
ELC 128 Intro to PLC.....	5	3
ELN 231 Industrial Controls.....	5	3
HYD 110 Hydraulics/Pneumatics I	5	3
	*Technical Elective.....	3-6 3-4
	** Professional Elective.....	3-5 2-3
		14-16
FOURTH SEMESTER		
ATR 280 Robotic Fundamentals.....	5	4
HYD 121 Hydraulics/Pneumatis II	4	2
PCI 264 Process Control with PLCs.....	6	4
	*Technical Elective.....	3-5 2-3
	** Professional Elective.....	3-6 3-4
		15-17
Total Credit Hours		71-74
*Technical Electives - Select 5-7 semester credit hours from the following:		
BIO 110 Principles of Biology	6	4
CHM 131 Introduction to Chemistry.....	3	3
CHM 131A Introduction to Chemistry Lab..	3	1
COE 111 Co-op Work Experience I.....	10	1
COE 112 Co-op Work Experience I.....	20	2
DFT 111 Technical Drafting I	4	2
MAT 122 Algebra/Trigonometry II	4	3
MAT 172 Precalculus Trigonometry	3	3
PHY 131 Physics-Mechanics	5	4
**Professional Electives - Select 5-6 semester credit hours from the following:		
DFT 151 CAD I	5	3
ISC 120 Enviro. Health	3	3
ISC 121 Environmental Health and Safety.....	3	3
MNT 165 Mechanical Industrial Sys	4	2
NET 125 Networking Basics	5	3
NET 126 Routing Basics	5	3
OMT 222 Project Mgmt.....	3	3
SST 120 Energy Use Analysis.....	4	3

Emergency Preparedness Technology (A55420)

Official Program Description registered with NC Community College System:

The Emergency Preparedness Technology curriculum is designed to provide students with a foundation of technical and professional knowledge needed for emergency services delivery in local and state government agencies. Study involves both management and technical aspects of law enforcement, fire protection, emergency medical services, and emergency planning.

Course work includes classroom and laboratory exercises to introduce the student to various aspects of emergency preparedness, protection, and enforcement. Students will learn technical and administrative skills such as investigative principles, hazardous materials, codes, standards, emergency agency operations, and finance.

Employment opportunities include a.m.bulance services, fire/rescue agencies, law enforcement agencies, fire marshal offices, industrial firms, educational institutions, emergency management offices, and other government agencies. Employed persons should have opportunities for skilled and supervisory-level positions.

Program Learning Outcomes

Upon completion of the Emergency Preparedness Technology program, a graduate should be able to:

- Access and respond to emergency situations by public service agencies through scenario based problems.
- Develop an emergency preparedness plan demonstrating critical reasoning, problem solving and communication skills and ethical concerns.
- Apply practical principles through a case study involving law, fire, and emergency services.
- Apply the appropriate laws when investigating, detecting and developing enforcement procedures for emergency scenarios.
- Utilize the latest technology in the field of emergency preparedness as prescribed by local, state, and federal agencies as it applies to the preservation of life and property in emergency situations

Degree Awarded

The Associate in Applied Science Degree - Emergency Preparedness Technology program is awarded by the College upon completion of this program.

For More Information

The Emergency Preparedness Technology program is in the Public Safety Division. For more information, call (919) 739-6799 or (919) 739-6804; or visit us at our web site at www.waynecc.edu/ept/.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
CJC 170 Critical Incident Mgmt Pub Saf	3	3
ENG 111 Expository Writing.....	3	3
EPT 120 Sociology of Disaster	3	3
FIP 120 Introduction to Fire Protect	3	3
		16

	Contact Hours	Semester Credit Hours
SECOND SEMESTER		
ENG 113 Literature-Based Research.....	3	3
FIP 128 Detection - Investigation	3	3
FIP 236 Emergency Management.....	3	3
FIP 256 Municipal Public Relations.....	3	3
MAT 115 Mathematical Models.....	4	3
		15
SUMMER TERM		
FIP 176 HazMat: Operations.....	4	4
		4
THIRD SEMESTER		
CJC 232 Civil Liabilities	3	3
EPT 130 Mitigation of Preparedness	3	3
EPT 220 Terrorism and Emergency Mgt.	3	3
FIP 228 Local Gov't Finance	3	3
Humanities/Fine Arts Elective..	3	3
		15
FOURTH SEMESTER		
EPT 210 Response to Recovery	3	3
EPT 275 Emergency Ops Center Mgt ...	3	3
FIP 152 Fire Protection	3	3
FIP 276 Managing Fire Services	3	3
POL 130 State and Local Government ...	3	3
		15
	Total Credit Hours	65

Emergency Preparedness Technology - Management Certificate (C55420M)

Certificate Awarded

A certificate in Emergency Preparedness Technology – Management Certificate is awarded by the College upon completion of this program.

For More Information

The Emergency Preparedness Technology program is in the Public Safety Division. For more information, call (919) 739-6818 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
FIP 236 Emergency Management.....	5	3
FIP 256 Municipal Public Relations.....	3	3
CJC 170 Critical Incident Mgmt Pub Saf	3	3
		9
SECOND SEMESTER		
EPT 220 Terrorism and Emer Mgmt	3	3
EPT 275 Emergency Ops Center Mgt ...	3	3
CJC 232 Civil Liability	3	3
		9
	Total Credit Hours	18

Forest Management Technology (A15200)

Official Program Description registered with NC Community College System:

The Forest Management Technology curriculum is designed to help students acquire technical knowledge, understanding, and abilities essential in developing, conserving, and utilizing forest resources.

Students develop an understanding and ability in the principles and

practices of forest resource management. Students will spend much of their time in field training situations where emphasis is placed on the practical application of this knowledge and skill.

Graduates should be qualified for entry into positions as forest technicians with federal, state, and private forestry enterprises. Graduates will have competencies in forest protection, forest management, forest procurement and in performing various related technical activities.

Program Learning Outcomes

Upon completion of the Forest Management Technology program, a graduate should be able to:

- Create a forest management plan to develop, conserve and utilize sustainable forest resources.
- Calculate and analyze data and apply the results to common forest management problems.
- Summarize sustainable forest management issues on a regional, national and global level.
- Analyze historical trends in forestry and how they will influence future trends.

Degree Awarded

The Associate in Applied Science Degree - Forest Management Technology program is awarded by the College upon completion of this program.

Note

Students are required to purchase hard hats, field boots, compasses, and tapes which are used in the training process. Approximate cost is \$150.

For More Information

The Forest Management Technology program is in the Applied Technology Division. For more information, call (919) 739-6809 or (919) 739-6811 or visit us at our web site at www.waynecc.edu/forestry/.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ENG 111 Expository Writing	3	3
FOR 121 Dendrology	8	4
FOR 161 Safety and Woodsmanship.....	4	2
FOR 171 Intro to Forest Resources	3	3
*Math Elective.....	3-4	3
		16
SECOND SEMESTER		
AGR 170 Soil Science	4	3
CIS 110 Introduction to Computers	4	3
ENG 114 Professional Research and Reporting	3	3
FOR 131 Forest Measurements.....	5	3
Humanities/Fine Arts Elective..	3	3
		15
SUMMER TERM		
FOR 225 Silvics and Silviculture	6	4
FOR 232 Forest Mensuration.....	8	4
FOR 243 Insects/Diseases.....	5	3
		11

	Contact Hours	Semester Credit Hours
THIRD SEMESTER		
AGR 110 Agricultural Economics	3	3
FOR 175 Wildlife/Environ Studies	5	3
FOR 215 Introduction to GIS and GPS ...	5	3
FOR 285 Logging and Marketing	5	3
Social/Behavioral Science Elect... ..	3	3
		15

	Contact Hours	Semester Credit Hours
FOURTH SEMESTER		
AGR 140 Agricultural Chemicals	4	3
FOR 212 Forest Survey - Aerial Manag. .	5	3
FOR 241 Forest Fire Management	5	3
FOR 273 Forest Management Issues	6	2
FWL 142 Wildlife Management	5	3
		14
Total Credit Hours		71

*Math Elective choices:

MAT 115 Mathematical Models	2	3
MAT 161 College Algebra	3	3
MAT 171 Precalulus Algebra.....	3	3

General Occupational Technology (A55280)

Official Program Description registered with the NC Community College System:

The General Occupational Technology (GOT) curriculum provides individuals with an opportunity to upgrade their skills and earn an associate degree, diploma, or certificate by taking courses that offer specific job knowledge and skills.

The curriculum content will be individualized for students according to their occupational interests and needs. A program of study for each student will be developed from any non-developmental level courses from approved curriculum programs of study offered by the College. Graduates will become more effective workers, better qualified for advancements within their field of employment, and better qualified for a wide range of entry-level employment opportunities.

All courses included in the GOT must be taken from approved Associate of Applied Science (AAS), diploma or certificate programs.

Program Learning Outcomes

Specific program outcomes are not available for this program but are taken from the outcomes listed in the chosen professional areas.

Degree Awarded

The Associate in Applied Science Degree - General Occupational Technology is awarded by the College upon completion of this program.

Note

Students desiring a degree in General Occupation Technology must first meet with a GOT advisor, complete appropriate GOT documentation, and be approved by the Division Head for Business and Computer Technologies for the GOT program. **The appropriate documentation must be completed and be on file the semester prior to the semester in which student plans to graduate, (i.e., complete the documentation the Fall 12 and with an anticipated graduation in Spring 2013), as minimum.** Once approved, a copy of the documentation will be given to the student, a copy will be maintained by the advisor, and a copy will be sent to Admissions and Records. The student's advisor and Admissions and Records will maintain the documentation in order to track the student's progress towards graduation/degree completion. Students seeking to change their major to the GOT degree program must follow the above guidelines.

For More Information

The General Occupation Technology program is in the Business and Computer Technologies Division. For more information, call (919) 739-6881. On the internet, send e-mail to lassiter@waynecc.edu or visit our website: www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

		Semester Credit Hours
GENERAL EDUCATION REQUIREMENTS (15 SHC)		
ENG 111	Expository Writing	3
ENG 113	Literature-Based Research	3
OR		
ENG 114	Prof Research and Reporting	3
	Humanities/Fine Arts Elective	3
	MAT/Natural Sciences Elective	3
	Social/Behavior Science Elective	3
		15
MAJOR HOURS (49 SHC)		
Select courses from an approved WCC		
	Associate in Applied Science program	49
OTHER REQUIRED COURSE (1 SHC)		
		Semester Credit Hours
ACA 111	College Student Success	1
Total Credit Hours		65

Healthcare Management Technology (A25200)

Official Program Description registered with the NC Community College System:

The Healthcare Management Technology curriculum is designed to prepare students for employment in healthcare business and financial operations. Students will gain a comprehensive understanding of the application of management principles to the healthcare environment.

The curriculum places emphasis on planning, organizing, directing, and controlling tasks related to healthcare organizational objectives, including the legal and ethical environment. Emphasis is placed on the development of effective communication, managerial, and supervisory skills.

Graduates may find employment in healthcare settings including hospitals, medical offices, clinics, long-term care facilities, and insurance companies. Graduates are eligible to sit for the Certified Patient Account Manager (CPAM) and the Certified Manager of Patient Accounts (CMPA) examinations.

Program Learning Outcomes

The Associate of Applied Science degree in Healthcare Management Technology is designed to prepare students for employment in healthcare business and financial operations. Students will gain a comprehensive understanding of the application of management principles to the healthcare environment.

Graduates of this program will:

- Apply the basic management functions of planning, organizing, staffing, directing, and controlling within the healthcare environment.

- Build an extensive medical vocabulary and apply an understanding of basic anatomical systems to the interpretation of records and reports in a variety of medical settings.
- Understand the major types of insurance plans, apply standard coding guidelines, and process third-party claims.
- Demonstrate the ability to use business and medical software in the healthcare environment.
- Demonstrate the ability to communicate effectively through written, oral and other forms of communication.
- Develop team-building skills and participate as a member of a team.
- Think and plan strategically in making healthcare business decisions.
- Demonstrate knowledge of current medical law and accepted ethical behavior in the healthcare industry.

Degree Awarded

The Associate in Applied Science Degree-Healthcare Management Technology is awarded by Pitt Community College (PCC) upon completion of this program.

Note

Pitt Community College is the degree-granting institution, and all Healthcare Management Technology (HMT) courses must be taken there. All other courses can be taken at WCC.

For More Information

The Healthcare Management Technology program is in the Business and Computer Technologies Division. For more information call (919) 739-6877, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills is required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

		Contact Hours	Semester Credit Hours
FIRST SEMESTER			
ACA 111	College Student Success	1	1
BUS 110	Introduction to Business	3	3
ENG 111	Expository Writing	3	3
HMT 110	Introduction to Healthcare Management (PCC)	3	3
MAT 115	Mathematical Models	4	3
OR			
MAT 140	Survey of Mathematics	3	3
OR			
MAT 161	College Algebra	3	3
OST 137	Office Software Applications	4	3
OR			
CIS 111	Basic PC Literacy (PCC)	3	2
OR			
CIS 110	Introduction to Computers	4	3
			15-16
SECOND SEMESTER			
ACC 120	Principles of Financial Accounting	5	4
BUS 121	Business Math (PCC)	4	3
OR			
MAT 155	Statistical Analysis (PCC)	3	3

		Contact Hours	Semester Credit Hours
ENG 114	Professional Research and Reporting	3	3
	OR		
ENG 112	Argument Based Research (PCC)	3	3
	OR		
ENG 113	Literature Based Research	3	3
HMT 212	Management of Healthcare Organization (PCC)	3	3
MED 121	Medical Terminology I	3	3
			16
SUMMER TERM			
BUS 153	Human Resources Management (PCC)	3	3
COM 231	Public Speaking	3	3
MED 122	Medical Terminology II	3	3
MED 118	Medical Law and Ethics	2	2
	OR		
OST 149	Medical Legal Issues	3	3
SOC 213	Sociology of the Family	3	3
	OR		
PSY 150	General Psychology	3	3
			14-15
THIRD SEMESTER			
ACC 121	Principles of Managerial Accounting	5	4
CTS 130	Spreadsheet	4	3
HMT 210	Medical Insurance (PCC)	3	3
HMT 211	Long-Term Care Administration (PCC)	3	3
HUM 115	Critical Thinking	3	3
			16
FOURTH SEMESTER			
ACC 140	Payroll Accounting	3	2
COE 110	World of Work	1	1
COE 112	Co-op Work Experience I	20	2
HMT 220	Healthcare Financial Mgmt. (PCC)	4	4
HMT 225	Practice Mgmt. Simulation (PCC)	4	3
SPA 120	Spanish for the Workplace	3	3
			15
	Total Credit Hours		76-78

Human Services Technology (A45380)

Official Program Description registered with the NC Community College System:

The Human Services Technology curriculum prepares students for entry-level positions in institutions and agencies which provide social, community, and educational services. Along with core courses, students take courses which prepare them for specialization in specific human service area. Students will take courses from a variety of disciplines. Emphasis in core courses is placed on development of relevant knowledge, skills, and attitudes in human services. Fieldwork experience will provide opportunities for application of knowledge and skills learned in the classroom.

Graduates should qualify for positions in mental health, child care, family services, social services, rehabilitation, correction, and educational agencies.

Program Learning Outcomes

Upon completion of the Human Services Technology program, the graduate should be able to:

- Analyze human behavior and development from historical, biological, psychological and sociological perspectives.
- Apply principles related to the diversity of peoples and cultures in the therapeutic relationship.
- Apply practical principles related to the Human Services profession.
- Apply critical reasoning, problem-solving abilities, and communication skills in clinical practice.
- Employ professional and ethical behavior in clinical practice.

Degree Awarded

The Associate in Applied Science Degree-Human Services Technology is awarded by the College upon completion of this program.

For More Information

The Human Services Technology program is in the Allied Health and Public Services Division. For more information call (919) 739-6796, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or the equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

Students must demonstrate competency in Math Skills by completion of DMA 010 through DMA 050 with a minimum of P or equivalent scores for DMA 010 through DMA 050 on math diagnostic test or equivalent course work with C or better.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111	College Student Success	1
ENG 111	Expository Writing	3
HSE 110	Intro to Human Services	4
HSE 112	Group Process I	3
PSY 150	General Psychology	3
SOC 210	Introduction to Sociology	3
		15
SECOND SEMESTER		
DDT 110	Developmental Disabilities	3
ENG 114	Professional Research and Reporting	3
HSE 123	Interviewing Techniques	4
HSE 125	Counseling	4
PSY 241	Developmental Psychology	3
		15
SUMMER TERM		
BIO 161	Introduction to Human Body	3
CIS 110	Introduction to Computers	4
COE 110	World of Work	1
		7
THIRD SEMESTER		
COE 111	Co-op Work Experience I	1
COE 115	Work Experience Seminar	10
HSE 210	Human Service Issues	2
HSE 225	Crisis Intervention	3
PSY 141	Psychology of Death and Dying	3
PSY 281	Abnormal Psychology	3
		13
FOURTH SEMESTER		
COE 121	Co-op Work Experience II	10
GRO 120	Gerontology	3
HEA 112	First Aid and CPR	3
PSY 183	Psychology of Addictions	3
		3

	Contact Hours	Semester Credit Hours
SOC 220 Social Problems.....	3	3
Humanities/Fine Arts Elective..	3	3
		15
Total Credit Hours		65

Industrial Systems Technology (A50240)

Official Program Description registered with the NC Community College System:

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to service, maintain, repair, or install equipment for a wide range of industries. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial equipment and physical facilities.

Students will learn technical skills in blueprint reading, electricity, hydraulics/pneumatics, machining, welding, and various maintenance procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of any of the various levels of this curriculum, graduates should gain the necessary practical skills and related technical information to qualify for employment or advancement in the various areas of industrial maintenance technology.

Program Learning Outcomes

Upon completion of the Industrial Systems Technology program, a graduate should be able to:

- Design and install industrial electrical systems.
- Analyze industrial diagrams.
- Demonstrate basic welding skills.
- Design and install industrial control systems.
- Apply mechanical principles to solve industrial problems.
- Design and install industrial fluid power systems.

Degree Awarded

The Associate in Applied Science Degree-Industrial Systems Technology is awarded by the College upon completion of this program.

Note

Students will be required to purchase basic hand tools and personal safety equipment.

For More Information

The Industrial Systems Technology program is in the Applied Technology Division. For more information call (919) 739-6806 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
EGR 110 Intro to Engineering Tech.....	3	2
ELC 125 Diagrams and Schematics.....	3	2
ELC 127 Software for Technicians.....	4	2
ELC 131 DC/AC Circuit Analysis.....	7	5
ENG 111 Expository Writing.....	3	3
WLD 112 Basic Welding Processes.....	4	2
		17

	Contact Hours	Semester Credit Hours
SECOND SEMESTER		
ELC 120 Intro to Wiring.....	4	3
ELN 133 Digital Electronics.....	6	4
DFT 151 CAD I.....	5	3
MAT 121 Algebra/Trigonometry I.....	3	3
		OR
MAT 171 Precalculus Algebra.....	3	3
Humanities/Fine Arts Elective..	3	3
		16
SUMMER TERM		
ISC 121 Envir. Health and Safety.....	3	3
MNT 110 Intro to Maint. Procedures.....	4	2
PCI 162 Instrumentation Controls.....	5	3
		8
THIRD SEMESTER		
ELC 128 Intro to PLC.....	5	3
ELN 231 Industrial Controls.....	5	3
ENG 114 Prof Research and Reporting..	3	3
HYD 110 Hydraulics/Pneumatics I.....	5	3
MNT 165 Mechanical Industrial Sys.....	4	2
		14
FOURTH SEMESTER		
HYD 121 Hydraulics/Pneumatics.....	4	2
MEC 111 Machine Processes I.....	5	3
PCI 264 Process Control with PLCs.....	6	4
SST 120 Energy Use Analysis.....	4	3
WLD 212 Inert Gas Welding.....	4	2
Social/Behavioral Science Elective.....	3	3
		17
Total Credit Hours		72

Industrial Systems Certificate (C50240)

Certificate Awarded

A Certificate in Industrial Systems is awarded by the College upon completion of this program.

For More Information

The Industrial Systems program is in the Applied Technology Division. For more information call (919) 739-6806 or 6818 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FALL SEMESTER		
ELC 125 Diagrams and Schematics.....	3	2
MNT 165 Mechanical Industrial Sys.....	4	2
		4
SPRING SEMESTER		
ELC 120 Intro to Wiring.....	4	3
*ELC 127 Software for Technician.....	4	2
PCI 264 Process Control with PLCs.....	6	4
		9
SUMMER SEMESTER		
*ISC 121 Envir. Health and Safety.....	3	3

	Contact Hours	Semester Credit Hours
*MNT 110 Intro to Maint Procedures	4	2
		5
Total Credit Hours		18

*Online Courses.

Industrial Systems Technology - Industrial Controls Certificate (C50240IC)

Certificate Awarded

A certificate in Industrial Systems Technology-Industrial Controls is awarded by the College upon completion of this program.

For More Information

The Industrial Systems Technology program is in the Applied Technology Division. For more information call (919) 739-6806 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FALL SEMESTER		
ELC 125 Diagrams and Schematics.....	3	2
ELN 231 Industrial Controls.....	5	3
		5
SPRING SEMESTER		
ELC 120 Intro to Wiring	4	3
PCI 264 Process Controls w/PLC's	6	4
SST 120 Energy Use Analysis.....	4	3
		10
Total Credit Hours		15

Industrial Systems Technology - Maintenance Management Certificate (C50240MM)

Certificate Awarded

A certificate in Industrial Systems Technology-Maintenance Management is awarded by the College upon completion of this program.

For More Information

The Industrial Systems Technology program is in the Applied Technology Division. For more information call (919) 739-6806 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FALL SEMESTER		
ELC 125 Diagrams and Schematics.....	3	2
ELC 127 Software for Technicians.....	4	2
		4
SPRING SEMESTER		
DFT 151 CAD I.....	5	3
SST 120 Energy Use Analysis.....	4	3
		6

	Contact Hours	Semester Credit Hours
SUMMER SEMESTER		
*ISC 121 Envir. Health and Safety.....	3	3
*MNT 110 Intro to Maintenance Proc.....	4	2
		5
Total Credit Hours		15

*Online courses

Industrial Systems Technology - Mechanical Systems Certificate (C50240MS)

Certificate Awarded

A certificate in Industrial Systems Technology- Mechanical Systems is awarded by the College upon completion of this program.

For More Information

The Industrial Systems Technology program is in the Applied Technology Division. For more information call (919) 739-6806 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FALL SEMESTER		
WLD 112 Basic Welding Processes	4	2
HYD 110 Hydraulics/Pneumatics I.....	5	3
MNT 165 Mechanical Industrial Systems	4	2
		7
SPRING SEMESTER		
MEC 111 Machine Processes I.....	5	3
WLD 212 Inert Gas Welding.....	4	2
		5
SUMMER SEMESTER		
MNT 110 Intro to Maint Procedures	4	2
		2
Total Credit Hours		14

Mechanical Engineering Technology (A40320)

Official Program Description registered with the NC Community College System:

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 electronics, students will study computer applications, critical thinking, planning and problem solving, and oral and written communications.

Graduates of this 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.

Program Learning Outcomes

Upon completion of the Industrial Systems Technology program, a graduate should be able to:

- Construct advanced CAD drawings.
- Prepare complete working drawings using mechanical drafting techniques.
- Apply concepts of hydraulic/pneumatic to mechanical design.
- Apply concepts of statics/strength of materials to mechanical design.
- Design mechanical systems that include but are not exclusive to: Jig and Fixture Design, Gears, Cams, and Pulleys, and Linkages.
- Use traditional machine shop practices to create and measure machined parts.
- Prepare mathematical engineering technology calculations and apply to mechanical designs.

Degree Awarded

The Associate in Applied Science Degree-Mechanical Engineering Technology is awarded by the College upon completion of this program.

Note

Students are required to purchase minor drafting supplies (about \$50). The math department requires purchase of a graphics calculator (about \$100).

For More Information

The Mechanical Engineering Technology program is in the Applied Technology Division. For more information, call (919) 739-6814 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
DFT 111 Technical Drafting I.....	4	2
DFT 151 CAD I.....	5	3
EGR 110 Intro to Engineering Tech.....	3	2
ELC 131 DC/AC Circuits.....	7	5
ENG 111 Expository Writing.....	3	3
		16
SECOND SEMESTER		
DFT 112 Tech Drafting II.....	4	2
DFT 152 CAD II.....	5	3
MAT 121 Algebra/Trigonometry I.....	4	3
MEC 111 Machine Processes I.....	5	3
Social/Behavioral Science Elective.....	3	3
		14
SUMMER TERM		
CIS 110 Introduction to Computers.....	4	3
DDF 211 Design Process I.....	7	4
		7
THIRD SEMESTER		
DDF 212 Design Process II.....	7	4
HYD 110 Hydraulics/Pneumatics I.....	5	3
MAT 122 Algebra/Trigonometry II.....	4	3
MEC 231 Comp-Aided Manufact I.....	5	3
Humanities/Fine Arts Elective..	3	3
		16

Contact Hours Semester Credit Hours

FOURTH SEMESTER				
DDF 213 Design Process III.....	7		4	
DDF 214 Tool Design.....	6		4	
ENG 114 Professional Research and Reporting.....	3		3	
MEC 250 Statics/Strengths of Mat.....	7		5	16
				69
Total Credit Hours				

Mechanical Engineering Technology - Drafting Certificate (C40320A)

Certificate Awarded

A certificate in Mechanical Engineering Technology - Drafting is awarded by the College upon completion of this program.

For More Information

The Mechanical Engineering Technology program is in the Applied Technology Division. For more information, call (919)739-6814 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6814.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
DFT 111 Technical Drafting I.....	4	2
DFT 151 CAD I.....	5	3
EGR 110 Intro to Engineering Tech.....	3	2
		7
SECOND SEMESTER		
DFT 112 Tech Drafting II.....	4	2
DFT 152 CAD II.....	5	3
		5
Total Credit Hours		12

Mechanical Engineering Technology - Tool Design Certificate (C40320B)

Certificate Awarded

A certificate in Mechanical Engineering Technology - Tool Design is awarded by the College upon completion of this program.

For More Information

The Mechanical Engineering Technology program is in the Applied Technology Division. For more information, call (919) 739-6814 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6814.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
DFT 111 Technical Drafting I.....	4	2
DFT 151 CAD I.....	5	3
		5
SECOND SEMESTER		
DFT 112 Tech Drafting II.....	4	2
DFT 152 CAD II.....	5	3
MEC 111 Machine Processes I.....	5	3
		8

	Contact Hours	Semester Credit Hours
THIRD SEMESTER		
DDF 214 Tool Design.....	6	4
		4
Total Credit Hours		17

Medical Assisting (A45400)

Official Program Description registered with the NC Community College System:

The Medical Assisting Curriculum prepares multi-skilled health care professionals qualified to perform administrative, clinical, and laboratory procedures.

Course work includes instruction in scheduling appointments, coding and processing insurance accounts, billing, collections, medical transcription, computer operations; assisting with examinations/treatments, performing routine laboratory procedures, electrocardiography, supervised medication administration; and ethical/legal issues associated with patient care.

Graduates of CAAHEP accredited medical assisting programs may be eligible to sit for the a.m.eric an Association of Medical Assistants' Certification Examination to become Certified Medical Assistants. Employment opportunities include physicians' offices, health maintenance organizations, health departments, and hospitals.

Program Learning Outcomes

Upon completion of the Medical Assisting program, a graduate should be able to:

- Demonstrate professional behavior that reflects an understanding of ethical, legal, and self-management concepts.
- Communicate effectively with patients, their families, and other health care team members.
- Practice entry level administrative, clinical and laboratory functions as they relate to the examination and treatment of patients in medical facilities.
- Implement teaching plan based on individual needs as well as community needs.

Degree Awarded

The Associate in Applied Science Degree-Medical Assisting is awarded by the College upon completion of the program.

Note

A grade of C must be achieved in all MED curriculum courses in order to progress within the program.

A student convicted of a felony may not be eligible for the certification examination administered by the a.m.eric an Association of Medical Assistants (AAMA). However, the certifying board may grant a waiver leas ed upon mitigating circumstances.

Criminal Background Checks

Affiliating clinical agencies with which the College has contracted to provide clinical experiences for Medical Assisting students may require students to submit to criminal background checks and/or drug testing prior to or during participation in clinical experiences at the site. Students should be aware that if a clinical site denies a student placement in their facility, the student would be unable to complete the required clinical component of the course. This will prohibit the student from progressing and completing the Medical Assisting program. The student will be dismissed from the program.

Accreditation

Wayne Community College Medical Assisting Program is accredited by the Commission on Accreditation of Allied Health Education Programs (www.caahep.org) upon the recommendation of the Curriculum Review Board of the a.m.eric an Association of Medical Assistants Endowment (CRB_AAMAE). CAAHEP, 1361 Park Street, Clearwater, FL 33756, (727) 210-2350.

For More Information

The Medical Assisting Technology program is in the Allied Health and Public Services Division. For more information, call (919) 739-6781, or visit our web site at www.waynecc.edu.

Admissions

Individuals desiring a career as a medical assistant should take biology, mathematics, and typing/keyboarding/computer courses prior to entering the program.

Individuals desiring admission to the program should follow the admissions procedures outlined on pages 9, 10 and 11 of this catalog and in the Application Policies and Procedures Packet.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
BIO 163 Basic Anatomy and Physiology	6	5
ENG 111 Expository Writing.....	3	3
MAT 110 Mathematical Measurement ...	4	3
MED 110 Orientation to Medical Assist ...	1	1
MED 121 Medical Terminology I.....	3	3
OST 131 Keyboarding.....	3	2
		18
SECOND SEMESTER		
ENG 114 Professional Research and Reporting	3	3
MED 122 Medical Terminology II.....	3	3
MED 130 Administrative Office Procedures I	3	2
MED 134 Medical Transcription.....	4	3
OST 136 Word Processing.....	4	3
PSY 150 General Psychology.....	3	3
		17
SUMMER TERM		
MED 140 Exam Room Procedures I.....	7	5
MED 150 Laboratory Procedures I.....	7	5
		10
THIRD SEMESTER		
MED 131 Administrative Office Procedures II	3	2
MED 240 Exam Room Procedures II.....	7	5
MED 250 Laboratory Procedures II.....	7	5
MED 272 Drug Therapy.....	3	3
		15
FOURTH SEMESTER		
MED 118 Medical Law and Ethics	2	2
MED 232 Medical Insurance and Coding	4	2
MED 260 Medical Clinical Practicum.....	15	5
MED 264 Medical Assisting Overview	2	2
Humanities/Fine Arts Elective..	3	3
		14
Total Credit Hours		74

**Medical Assisting/Advanced Standing
Alternative for Medical Office
Administration or Medical Transcription
(A45400)**

Prerequisite/Transfer Credit

	Contact Hours	Semester Credit Hours
ACA 111 College Student Success.....	1	1
BIO 163 Basic Anatomy and Physiology	6	5
MAT 110 Mathematic Measurement	4	3
ENG 111 Expository Writing	3	3
ENG 114 Professional Research and Reporting	3	3
OST 131 Keyboarding.....	3	2
OST 136 Word Processing.....	4	3
MED 121 Medical Terminology I.....	3	3
MED 122 Medical Terminology II.....	3	3
MED 130 Admin Office Proc I.....	3	2
MED 134 Medical Transcription.....	4	3
PSY 150 General Psychology.....	3	3
		33
SUMMER TERM		
MED 140 Exam Room Procedures I.....	7	5
MED 150 Laboratory Procedures I.....	7	5
		10
THIRD SEMESTER		
MED 110 Orientation to Medical Assisting	1	1
MED 131 Administrative Office Procedures II	3	2
MED 240 Exam Room Procedures II.....	7	5
MED 250 Laboratory Procedures II.....	7	5
MED 272 Drug Therapy.....	3	3
		16
FOURTH SEMESTER		
MED 118 Medical Law and Ethics.....	2	2
MED 232 Medical Insurance and Coding	4	2
MED 260 Medical Clinical Practicum.....	15	5
MED 264 Medical Assisting Overview	2	2
Humanities/Fine Arts Elective..	3	3
		14
Total Credit Hours		74

Medical Office Administration (A25310)

Official Program Description registered with the NC Community College System:

The Medical Office Administration curriculum prepares individuals for employment in medical and other healthcare-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 healthcare-related organizations.

Program Learning Outcomes

Upon completion of the Medical Office Administration program, a graduate should be able to:

- Use technology to perform basic office functions.
- Produce accurate business documents.
- Produce accurate medical documents.

- Perform administrative tasks required for day-to-day operations in a medical setting.
- Apply professional and ethical standards within a healthcare setting.

Degree Awarded

The Associate in Applied Science Degree - Medical Office Administration is awarded by the College upon completion of this program.

Note

Progression in this program is dependent on satisfying course prerequisites and maintaining a grade of C or better in selected courses.

For More Information

The Medical Office Administration program is in the Business and Computer Technologies Division. For more information, call (919) 739-6877, or visit our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills is required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
ENG 111 Expository Writing	3	3
MED 121 Medical Terminology I.....	3	3
OST 132 *Keyboarding Skill Building	3	2
OST 164 Text Editing Applications.....	3	3
OST 181 Intro to Office Systems	4	3
		18
SECOND SEMESTER		
ENG 114 Professional Research and Reporting	3	3
MED 122 Medical Terminology II.....	3	3
OST 134 *Text Entry and Formatting.....	4	3
OST 136 *Word Processing.....	4	3
OST 184 *Records Management	4	3
Humanities/Fine Arts Elective..	3	3
		18
THIRD SEMESTER		
BUS 260 Business Communication	3	3
COE 110 World of Work	1	1
OST 148 Medical Coding, Billing, and Insurance	3	3
OST 149 Medical Legal Issues	3	3
OST 153 Office Finance Solutions.....	3	2
OST 286 Professional Development.....	3	3
Social/Behavioral Science Elective	3	3
		18
FOURTH SEMESTER		
MAT 115 Mathematical Models.....	4	3
OST 241 Medical Office Transcription I..	3	2
OST 243 Medical Office Simulation	4	3
OST 284 Emerging Technologies.....	3	2
OST 289 Admin Office Management	4	3
**Major Elective	-	2-3
		15-16
Total Credit Hours		69-70

* Keyboarding proficiency is a prerequisite for designated courses. This prerequisite may be satisfied through advanced placement, proficiency testing, or course enrollment.

	Contact Hours	Semester Credit Hours
** Major Electives (select one course):		
COE 112 Co-op Work Experience I.....	20	2
CTS 130 Spreadsheet	4	3
MED 118 Medical Law and Ethics	2	2
OST 131 Keyboarding.....	3	2
OST 137 Office Software Applications	4	3
OST 236 Adv Word/Info Processing	4	3
OST 242 Medical Office Transcription II .	3	2
OST 247 Procedure Coding.....	3	2
OST 248 Diagnostic Coding.....	3	2
OST 249 CPC Certification	5	4
SPA 120 Spanish for the Workplace.....	3	3

Medical Office Administration/Medical Coding Diploma (D25310)

Degree Awarded

A diploma in Medical Office Administration/Medical Coding is awarded by the College upon completion of this program. Graduates will be eligible to sit for the Certified Professional Coder (CPC) exam.

Note

Courses in the following areas will be helpful to students: computer applications, health occupations, keyboarding, word processing, records management, and business English. Progression in this program is dependent on satisfying course prerequisites and maintaining a grade of C or better in selected courses.

For More Information

The Medical Office Administration program is in the Business and Computer Technologies Division. For more information, call (919) 739-6877 or visit our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
 - A placement test in English, mathematics, reading, and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
MED 121 Medical Terminology I	3	3
OST 132 *Keyboarding Skill Building	3	2
OST 148 Medical Coding, Billing and Ins	3	3
OST 181 Intro to Office Systems	4	3
		15
SECOND SEMESTER		
ENG 111 Expository Writing	3	3
MED 122 Medical Terminology II	3	3
OST 136 Word Processing.....	4	3
OST 243 *Medical Office Simulation.....	4	3
OST 247 Procedure Coding.....	3	2
OST 248 Diagnostic Coding.....	3	2
		16
THIRD SEMESTER		
COE 110 World of Work	1	1
ENG 114 Prof Research and Reporting ..	3	3
OST 149 Medical Legal Issues	3	3
OST 153 Office Finance Solutions.....	3	2
OST 164 Text Editing Applications	3	3
OST 249 CPC Certification	5	4
		16
Total Credit Hours		47

* Keyboarding proficiency is a prerequisite for designated courses. This prerequisite may be satisfied through advanced placement, proficiency testing, or course enrollment.

Medical Office Administration/Medical Transcription Diploma (D25310MT)

Degree Awarded

A diploma in Medical Administration/Medical Transcription is awarded by the College upon completion of this program.

Note

Progression in this program is dependent on satisfying course prerequisites and maintaining a grade of C or better in selected courses.

For More Information

The Medical Transcription program is in the Business and Computer Technologies Division. For more information, call (919) 739-6877, or visit our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
 - A placement test in English, mathematics, reading, and computer skills is required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ENG 111 Expository Writing	3	3
MED 121 Medical Terminology I	3	3
OST 132 Keyboard Skill Building	3	2
OST 164 Text Editing Applications	3	3
OST 181 Introduction to Office Systems.	4	3
		15
SECOND SEMESTER		
CIS 110 Introduction to Computers	4	3
MED 122 Medical Terminology II	3	3
OST 134 *Text Entry and Formatting.....	4	3
OST 136 *Word Processing.....	4	3
OST 148 Medical Coding, Billing, and Insurance	3	3
OST 241 Medical Office Transcription I ..	3	2
		17
THIRD SEMESTER		
COE 110 World of Work	1	1
ENG 114 Professional Research and Reporting	3	3
OST 149 Medical Legal Issues	3	3
OST 202 Medical Transcription II.....	5	4
OST 236 Advanced Word/Info Proc.....	4	3
OST 242 Medical Office Transcription II .	3	2
OST 243 Medical Office Simulation	4	3
		15
Total Credit Hours		47

*Keyboarding proficiency is a prerequisite for designated courses. This prerequisite may be satisfied through advanced placement, proficiency testing, or course enrollment.

Medical Office Administration/Medical Insurance Certificate (C25310MI)

Certificate Awarded

A certificate in Medical Office Administration/Medical Insurance is awarded by the College upon completion of this program.

Note

Progression in this program is dependent on satisfying course prerequisites and maintaining a grade of C or better in selected courses.

For More Information

The Medical Transcription program is in the Business and Computer Technologies Division. For more information, call (919) 739-6877, or visit our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills is required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
MED 118 Medical Law and Ethics	2	2
MED 121 Medical Terminology I	3	3
OST 148 Medical Coding, Billing, and Insurance	3	3
		8
SECOND SEMESTER		
MED 122 Medical Terminology II	3	3
OST 243 *Medical Office Simulation	4	3
OST 247 Procedure Coding	3	2
OST 248 Diagnostic Coding	3	2
		10
Total Credit Hours		18

* Keyboarding proficiency is a prerequisite for designated courses. This prerequisite may be satisfied through advanced placement, proficiency testing, or course enrollment.

Networking Technology (A25340)

Upon completion of the Networking Technology (A25340) program, a graduate should be able to:

- Complete a networking project from the definition phase through implementation.
- Configure networks and servers for optimal performance.
- Solve common system-level problems using trouble-shooting skills.

Degree Awarded

The Associate in Applied Science Degree - Network Technology is awarded by the College upon completion of this program.

Note

Individuals desiring a career in Networking Technology should, if possible, take algebra, keyboarding, and computer applications courses prior to entering the program. Courses that require critical reading and written oral communication skills will also be valuable.

Though students are not required to own their own computer, it is strongly recommended. In addition to textbooks, students will be required to provide their own portable storage media, such as USB drives, for most classes.

For More Information

The Network Technology program is in the Business and Computer Technologies Division. For more information, call (919) 739-6878, send e-mail to bull@waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- Placement tests in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success	1	1
BUS 110 Introduction to Business	3	3
CIS 110 Introduction to Computers	4	3
ENG 111 Expository Writing	3	3
NET 125 Networking Basics	3	3
NOS 110 Operating System Concepts	5	3
		16
SECOND SEMESTER		
CIS 115 Intro to Prog and Logic	5	3
CTS 120 Hardware/Software Support ...	5	3
DBA 110 Database Concepts	5	3
NET 126 Routing Basics	5	3
NOS 120 Linux/UNIX Single User	4	3
NOS 130 Windows Single User	4	3
		18
THIRD SEMESTER		
ENG 114 Professional Research and Reporting	3	3
NET 225 Routing and Switching I	5	3
NOS 230 Windows Admin I	4	3
SEC 110 Security Concepts	3	3
Humanities/Fine Arts Elective ..	3	3
Major Elective	-	0-2
Math Elective	2-4	3-4
		18-21
FOURTH SEMESTER		
COE 110 World of Work	1	1
CTS 118 IS Prof Comm	2	2
NET 226 Routing and Switching II	5	3
NET 289 Networking Project	5	3
NOS 231 Windows Admin II	4	3
Major Elective	3	3
Social/Behav Science Elective ..	-	1-3
		18
Total Credit Hours		70-71
*Select 3 semester hours of Math Electives from the courses below:		
MAT 121 Algebra/Trigonometry I	4	3
MAT 140 Survey of Mathematics	3	3
MAT 161 College Algebra	3	3
MAT 161A College Algebra Lab	2	1
MAT 171 Precalculus Algebra	3	3
MAT 171A Precalculus Algebra Lab	2	1
Select 3 semester hours of Major Elective from the courses below:		
COE 111 Co-op Work Experience I	10	1
COE 112 Co-op Work Experience I	20	2
COE 121 Co-op Work Experience II	10	1
COE 122 Co-op Work Experience II	20	2
COE 131 Co-op Work Experience III	10	1
CSC 151 Java Programming	5	3
CTS 285 Systems Analysis and Design ..	3	3
DBA 115 Database Applications	4	3
SEC 150 Secure Communications	4	3

Network Technology - Networking Certificate (C25340)

Certificate Awarded

A Certificate in Network Technology - Networking is awarded by the College upon completion of this program.

For More Information

The Network Technology program is in the Business and Computer Technologies Division. For more information, call (919) 739-6878, send e-mail to bull@waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
 - Placement tests in reading (090) and computer skills are required to determine the entry-level courses that match the individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
NOS 110 Operating System concepts....	5	3
		7
SECOND SEMESTER		
NOS 130 Windows Single User.....	4	3
		3
THIRD SEMESTER		
NET 125 Networking Basics	5	3
NOS 230 Windows Admin I	4	3
		6
Total Credit Hours		16

Network Technology - Routing and Switching Certificate (C25340RS)

Certificate Awarded

A Certificate in Network Technology - Routing and Switching is awarded by the College upon completion of this program.

For More Information

The Network Technology - Routing and Switching program is in the Business and Computer Technologies Division. For more information, call (919) 739-6878, send e-mail to bull@waynecc.edu, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
 - Placement tests in reading (090) and computer skills are required to determine the entry-level courses that match the individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computers	4	3
NET 125 Networking Basics	5	3
		7
SECOND SEMESTER		
NET 126 Routing and Switching II.....	5	3
		3

	Contact Hours	Semester Credit Hours
THIRD SEMESTER		
NET 225 Adv Routing and Switching I....	5	3
		3
FOURTH SEMESTER		
NET 226 Adv Routing and Switching II...	5	3
		3
Total Credit Hours		16

Nursing, Associate Degree (A45110)

Official Program Description registered with the NC Community College System:

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

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

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

The Associate Degree Nursing Program is accredited by the National League for Nursing Accrediting Commission (NLNAC) 3343 Peachtree Road NE, Suite 850, Atlanta, Georgia 30326, (404) 975-5000 or visit www.nlnac.org.

Program Learning Outcomes

Upon completion of the Associate Degree Nursing Program, a graduate should be able to:

- Apply the nursing process, critical thinking skills and evidence based practice to provide individualized, safe, competent and effective nursing care to diverse clients across the lifespan.
- Demonstrate caring behaviors when implementing nursing care to diverse clients across the lifespan.
- Use a variety of communication skills to establish and maintain a therapeutic and/or effective relationship with clients, families and members of the interdisciplinary healthcare team.
- Utilize resources, informatics and technologies in the delivery of nursing care.
- Develop and implement teaching plans for clients and families incorporating teaching and learning principles.
- Utilize basic management skills to implement nursing care and quality improvement processes. to evaluate and enhance outcomes for diverse groups of clients and families.
- Collaborate with client and members of the interdisciplinary team to plan, implement and evaluate the health care plan.
- Function within the legal framework of registered nurse practice and demonstrate accountability for own professional growth.

Degree Awarded

The Associate in Applied Science Degree - Associate Degree Nursing is awarded by the College upon completion of this program.

Note

Students demonstrate competency in computer skills by attaining minimally acceptable score (78) on CIS 070 placement test or completion of CIS 070 or CTS 080 with a grade of "C" or better.

Students must earn a grade of C or better in all curriculum courses in order to progress in the program.

In addition to tuition and textbooks, costs of this program include a watch with a second hand, uniforms, shoes, lab coat, physical examination, testing and assessment fees, immunizations, and fees for application for licensure for the North Carolina State Board of Nursing and National Council Licensure Examination.

For More Information

The Associate Degree Nursing program is in the Allied Health and Public Services Division. For more information, call (919) 739-6770, or visit us at our web site at www.waynecc.edu/nursing.

Admissions

- High school or college Chemistry is required prior to admission to the program.

- Individuals desiring admission to the program must follow the admissions procedures outlined on pages 9 and 10 of this catalog and in the Associate Degree Nursing Application Policies and Procedures packet available in the Office of Admissions and Records or on the website.

- Applicants must present evidence of good physical and mental health upon admission.

Note

An applicant to the nursing program who has been convicted or pled guilty to a misdemeanor and/or felony (excluding minor traffic violations) may not be eligible for licensure by the NC Board of Nursing.

The North Carolina Board of Nursing requires Criminal History Record Checks of all persons applying to practice nursing in the State of North Carolina. Applicants will be charged a fee to offset the cost of this background check.

Criminal Background Checks

Affiliating clinical agencies with which the College has contracted to provide clinical experiences for nursing students require students to submit to criminal background checks and/or drug testing prior to or during participation in clinical experiences at the site. Students should be aware that if a clinical site denies a student placement in their facility, the student would be unable to complete the required clinical component of the course. This will prohibit the student from progressing and completing the nursing program. The student will be dismissed from the program.

First Step To Apply:

Call the Admissions and Records Office at (919) 739-6727.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
BIO 168 Anatomy and Physiology I	6	4
NUR 111 Intro to Health Concepts	16	8
NUR 117 Pharmacology	4	2
		15
SECOND SEMESTER		
BIO 169 Anatomy and Physiology II	6	4
PSY 150 General Psychology	3	3
1st 8 Weeks		
NUR 112 Health-Illness Concepts	9	5
2nd 8 Weeks		
NUR 211 Health Care Concepts	9	5
		17
SUMMER TERM		
PSY 241 Developmental Psychology	3	3
NUR 114 Holistic Health Concepts	9	5
		8
THIRD SEMESTER		
BIO 175 General Microbiology	4	3
ENG 111 Expository Writing	3	3
1st 8 Weeks		

	Contact Hours	Semester Credit Hours
NUR 113 Family Health Concepts.....	9	5
2nd 8 Weeks		
NUR 212 Health System Concepts	9	5
		16
FOURTH SEMESTER		
ENG 113 Literature Based Research	3	3
NUR 213 Complex Health Concepts	22	10
Humanities/Fine Arts Elective..	3	3
		16
		72

Advanced Standing Alternative for Graduate Practical Nurses

	Contact Hours	Semester Credit Hours
Prerequisite/Transfer Credit		
BIO 168 Anatomy and Physiology I	6	4
BIO 169 Anatomy and Physiology II	6	4
PSY 150 General Psychology	3	3
NUR 117 Pharmacology	4	2
		13

Course Equivalency upon completion of NUR 214: Nsg Transition Concepts with C or better

NUR 111 Intro to Health Concepts	16	8
NUR 112 Health-Illness Concepts	9	5
NUR 211 Health Care Concepts	9	5
		18

SUMMER TERM

ACA 111 College Student Success.....	1	1
NUR 114 Holistic Health Concepts.....	9	5
PSY 241 Developmental Psychology	3	3
		9

THIRD SEMESTER

BIO 175 General Microbiology	4	3
ENG 111 Expository Writing	3	3
1st 8 Weeks		
NUR 113 Family Health Concepts.....	9	5
2nd 8 Weeks		
NUR 212 Health System Concepts	9	5
		16

FOURTH SEMESTER

ENG 113 Literature-Based Research.....	3	3
NUR 213 Complex Health Concepts	22	10
Humanities/Fine Arts Elective..	3	3
		16
		72

The Associate Degree Nursing (Advanced Standing Alternate for Graduate Practical Nurses) Application Policies and Procedures packet is available in the Office of Admissions and Records and on the WCC website www.waynecc.edu/alliedhealth.

Nursing/Practical Diploma (D45660)

Official Program Description registered with the NC Community College System:

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.

This Practical Nursing Program is accredited by the National League for Nursing Accrediting Commission (NLNAC), 3343 Peachtree Road, N.E. Suite 850 Atlanta, GA 30326, (404) 975-5000 or visit www.nlnac.org.

Program Learning Outcomes

Upon completion of the Practical Nursing program, a graduate should be able to:

- Participate in applying the nursing process and quality improvement activities to provide individualized, safe, competent, and effective nursing care in a structured setting under supervision.
- Demonstrate caring behaviors in implementing nursing care to diverse clients across the lifespan.
- Use verbal and non-verbal communication skills to establish and maintain effective relationships with clients, families, and members of the interdisciplinary healthcare team.
- Utilize established policies, procedures, practice and technology in the delivery of nursing care.
- Participate in the teaching and counseling of clients as assigned by the registered nurse.
- Organize care for groups of clients.
- Work cooperatively as a member of the interdisciplinary team in implementing the health care plan.
- Function within the legal and ethical framework of licensed practical nurse practice and demonstrate accountability for personal development.

Diploma Awarded

A Diploma in Practical Nursing is awarded by the College upon completion of this program.

Note

Students demonstrate competency in computer skills by attaining minimally acceptable score (78) on CIS 070 placement test or completion of CIS 070 or CTS 080 with a grade of "C" or better.

Students must earn a grade of C or better in all curriculum courses in order to progress in the program.

In addition to tuition and textbooks, cost of this program include a watch with a second hand, uniforms, shoes, lab coat, physical examination, immunizations, and fees for application for licensure for the North Carolina State Board of Nursing, and National Council Licensure Examination.

For More Information

The Practical Nursing program is in the Allied Health and Public Services Division. For more information, call (919) 739-6770 or visit us at our web site at www.waynecc.edu/nursing.

Admissions

- High school or college Chemistry is required prior to admission to the program.
- Individuals desiring admission to the program must follow the admissions procedures outlined on pages 9 and 10 of this catalog and in the Practical Nursing Application Policies and Procedures packet available in the Office of Admissions and Records and on the WCC website.
- Applicants must present evidence of good physical and mental health upon admission.

Note

An applicant to the nursing program who has been convicted or pled guilty to a misdemeanor and/or felony (excluding minor traffic violations) may not be eligible for licensure by the NC Board of Nursing.

The North Carolina Board of Nursing requires Criminal History Record Checks of all persons applying to practice nursing in the State of North Carolina. Applicants will be charged a fee to offset the cost of this background check.

Criminal Background Checks

Affiliating clinical agencies with which the College has contracted to

provide clinical experiences for nursing students may require students to submit to criminal background checks and/or drug testing prior to or during participation in clinical experiences at the site. Students should be aware that if a clinical site denies a student placement in their facility, the student would be unable to complete the required clinical component of the course. This will prohibit the student from progressing and completing the nursing program. The student will be dismissed from the program.

First Step To Apply:

Call the Admissions and Records Office at (919) 739-6727.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
NUR 101 Practical Nursing I.....	19	11
BIO 163 Basic Anatomy and Physiology	6	5
ACA 111 College Student Success.....	1	1
		17
SECOND SEMESTER		
NUR 102 Practical Nursing II.....	20	12
NUR 117 Pharmacology.....	4	2
PSY 150 General Psychology.....	3	3
		17
SUMMER TERM		
NUR 103 Practical Nursing III.....	18	10
ENG 111 Expository Writing.....	3	3
		13
	Total Credit Hours	47

Office Administration (A25370)

Official Program Description registered with the NC Community College System:

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.

Program Learning Outcomes

Upon completion of the Office Administration program, a graduate should be able to:

- Use technology to perform basic office functions.
- Produce accurate business documents.
- Perform administrative tasks required for day-to-day operations in an office setting.
- Apply professional and ethical standards in the workplace

Degree Awarded

The Associate in Applied Science Degree - Office Administration is awarded by the College upon completion of this program.

Note

Progression in this program is dependent on satisfying course prerequisites and maintaining a grade of C or better in selected courses.

For More Information

The Office Administration program is in the Business and Computer Technologies Division. For more information, call (919) 739-6877, or visit our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

- A placement test in English, mathematics, reading, and computer skills is required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computer	4	3
ENG 111 Expository Writing.....	3	3
OST 132 * Keyboarding Skill Building	3	2
OST 164 Text Editing Applications	3	3
OST 181 Introduction to Office Systems. ..Humanities/Fine Arts Elective	4 3	3 3
		18
SECOND SEMESTER		
CTS 130 Spreadsheet	4	3
ENG 114 Professional Research and Reporting	3	3
OST 134 * Text Entry and Formatting.....	4	3
OST 136 * Word Processing.....	4	3
OST 137 Office Software Applications	4	3
OST 184 * Records Management	4	3
		18
THIRD SEMESTER		
BUS 153 Human Resource Management	3	3
BUS 260 Business Communications	3	3
COE 110 World of Work	1	1
OST 153 Office Finance Solutions.....	3	2
OST 236 Advanced Word/ Information Processing.....	4	3
OST 286 Professional Development..... Social/Behavioral Science Elective	3 3	3 3
		18
FOURTH SEMESTER		
BUS 137 Principles of Management	3	3
BUS 240 Business Ethics	3	3
MAT 115 Mathematical Models.....	4	3
OST 284 * Emerging Technologies.....	3	2
OST 289 Admin Office Management	4	3
** Major Elective	3	2-3
		16-17
Total Credit Hours		70-71

* Keyboarding proficiency is a prerequisite for designated courses.

This prerequisite may be satisfied through advanced placement, proficiency testing, or course enrollment.

** Major Electives (Select one course):

	Contact Hours	Semester Credit Hours
ACC 129 Individual Income Taxes.....	4	3
COE 112 Co-op Work Experience.....	20	2
CTS 230 Advanced Spreadsheet	4	3
MKT 120 Principles of Marketing	3	3
OST 131 Keyboarding.....	3	2
SPA 120 Spanish for the Workplace.....	3	3

Office Administration - Diploma (D25370)**Diploma Awarded**

A diploma in Office Administration is awarded by the College upon completion of this program.

Note

Progression in this program is dependent on satisfying course prerequisites and maintaining a grade of C or better in selected courses.

For More Information

The Office Administration program is in the Business and Computer Technologies Division. For more information, call (919) 739-6877, or visit our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

- A placement test in English, mathematics, reading, and computer skills is required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Introduction to Computer	4	3
ENG 111 Expository Writing.....	3	3
OST 132 * Keyboard Skill Building	3	2
OST 164 Text Editing Applications	3	3
OST 181 Intro to Office Systems	4	3
		15
SECOND SEMESTER		
COE 110 World of Work	1	1
CTS 130 Spreadsheet	4	3
OST 134 * Text Entry and Formatting.....	4	3
OST 136 * Word Processing.....	4	3
OST 137 Office Software Applications	4	3
OST 184 * Records Management	4	3
		16
THIRD SEMESTER		
BUS 240 Business Ethics	3	3
ENG 114 Professional Research and Reporting	3	3
OST 153 Office Finance Solutions.....	3	2
OST 236 Adv Word/Info Processing	4	3
OST 289 Admin Office Management	4	3
		14
Total Credit Hours		45

* Keyboarding proficiency is a prerequisite for designated courses.

This prerequisite may be satisfied through advanced placement, proficiency testing, or course enrollment.

Office Administration - Certificate (C25370)**Certificate Awarded**

A certificate in Office Administration is awarded by the College upon completion of this program.

Note

Progression in this program is dependent on satisfying course prerequisites and maintaining a grade of C or better in selected courses.

For More Information

The Office Administration program is in the Business and Computer Technologies Division. For more information, call (919) 739-6877, or

visit our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills is required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
CIS 110 Introduction to Computers	4	3
OST 132* Keyboarding Skillbuilding.....	3	2
OST 181 Introduction to Office Systems..	4	3
		8
SECOND SEMESTER		
OST 134* Text Entry and Formatting.....	4	3
OST 184 Records Management	4	3
		6
Total Credit Hours		14

* Keyboarding proficiency is a prerequisite for designated courses. This prerequisite may be satisfied through advanced placement, proficiency testing, or course enrollment.

Office Administration/Microsoft Applications Certificate (C25370MA)

Certificate Awarded

A certificate in Office Administration/Microsoft Applications is awarded by the College upon completion of this program.

Note

Progression in this program is dependent on satisfying course prerequisites and maintaining a grade of C or better in selected courses.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills is required to determine the entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
CIS 110 Introduction to Computers	4	3
OST 136* Word Processing.....	4	3
		6
SECOND SEMESTER		
CTS 130 Spreadsheet	4	3
OST 137 Office Software Applications	4	3
OST 236 Advanced Word/ Information Processing	4	3
		9
Total Credit Hours		15

* Keyboarding proficiency is a prerequisite for designated courses. This prerequisite may be satisfied through advanced placement, proficiency testing, or course enrollment.

Pharmacy Technology (D45580)

Official Program Description registered with the NC Community College System:

The Pharmacy Technology program prepares individuals to assist the pharmacies in duties that a technician can legally perform and to function within the boundaries prescribed by the pharmacist and the employment agency.

Students will prepare prescription medications, mix intravenous solutions and other specialized medications, update patient profiles, maintain inventories, package medications in unit-dose or med-card form, and gather data used by pharmacist to monitor drug therapy.

Employment opportunities include retail, hospitals, nursing homes, research laboratories, wholesale drug companies, and pharmaceutical manufacturing facilities. Graduates from the program may be eligible to take the National Certification Examination to become a certified pharmacy technician.

Program Learning Outcomes

Upon completion of the Pharmacy Technology program, a graduate should be able to:

- Demonstrate the written and oral communication skills required for safe and legal practice in the role of pharmacy technicians.
- Apply critical thinking skills and technical skills necessary for safe preparation and distribution of medication.
- Perform mathematical calculations needed to safely prepare medications and solutions.
- Use current technologies to prepare, store, inventory, and distribute medications.
- Function effectively as a member of the health care team displaying sensitivity to cultural diversity.
- Practice in a legal manner.

Diploma Awarded

A diploma in Pharmacy Technology is awarded by the College upon completion of the program.

Note: In addition to tuition and textbooks, costs of this program include uniforms, lab coat, physical examination, immunizations, a reliable transportation, criminal background check, drug screen and other miscellaneous fees.

Criminal Background Checks

Affiliating clinical agencies with which the College has contracted to provide clinical experiences for Pharmacy Technology students may require students to submit to criminal background checks and drug testing prior to or during participation in clinical experiences at the site. Students should be aware that if a clinical site denies a student placement in their facility, the student would be unable to complete the required clinical component of the course. This will prohibit the student from progressing and completing the Pharmacy Technology program. The student will be dropped from the program.

For More Information

The Pharmacy Technology program is in the Allied Health and Public Services Division. For more information, call (919) 739-6950 or visit us at our we site at www.waynecc.edu.

Admissions

Individuals desiring admission to the program must follow the admissions procedures outlined on pages 9 and 10 of this catalog.

First Step To Apply:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
PHM 110 Introduction to Pharmacy.....	3	3
PHM 111 Pharmacy Practice I.....	6	4
PHM 115 Pharmacy Calculations	3	3
PSY 150 General Psychology.....	3	3
		14
SECOND SEMESTER		
ENG 111 Expository Writing	3	3
PHM 118 Sterile Products	6	4
PHM 120 Pharmacology I.....	3	3

	Contact Hours	Semester Credit Hours
PHM 135 Pharmacy Clinical	15	5
PHM 165 Pharmacy Professional Practice	2	2
		17
SUMMER TERM		
PHM 125 Pharmacology II	3	3
PHM 140 Trends in Pharmacy	2	2
PHM 132 Pharmacy Clinical	6	2
		7
Total Credit Hours		38

Phlebotomy Certificate (C45600)

Official Program Description registered with the NC Community College System:

The Phlebotomy curriculum prepares individuals to obtain blood and other specimens for the purpose of laboratory analysis.

Course work includes proper specimen collection and handling, communication skills, and maintaining patient data.

Graduates may qualify for employment in hospitals, clinics, physician's offices, and other health care settings and may be eligible for national certification as phlebotomy technicians.

Program Learning Outcomes

Upon completion of the Phlebotomy program, a graduate should be able to:

- Perform phlebotomy procedures while adhering to safety guidelines.
- Demonstrate professional behavior during the practice of phlebotomy.

Certificate Awarded

A certificate in Phlebotomy is awarded by the College upon completion of the program.

Note

In addition to tuition and textbooks, costs of this program include lab coat, physical examination, immunizations, certification fees, a reliable car, criminal background check, drug screen and other miscellaneous fees.

Criminal Background Checks

Affiliating clinical agencies with which the College has contracted to provide clinical experiences for Phlebotomy students may require students to submit to criminal background checks and/or drug testing prior to or during participation in clinical experiences at the site. Students should be aware that if a clinical site denies a student placement in their facility, the student would be unable to complete the required clinical component of the course. This will prohibit the student from progressing and completing the Phlebotomy program. The student will be dismissed from the program.

For More Information

The Phlebotomy program is in the Allied Health and Public Services Division. For more information, call (919) 739-6781 or visit us at our web site at www.waynecc.edu.

Admissions

Individuals desiring admission to the program must follow the admissions procedures outlined on pages 9 and 10 of this catalog.

First Step To Apply:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
PBT 100 Phlebotomy Technology.....	7	6
PBT 101 Phlebotomy Practicum.....	9	3
PSY 101 Applied Psychology.....	3	3
Total Credit Hours		12

School-Age Education (A55440)

Official Program Description registered with the NC Community College System:

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.

Program Learning Outcomes

Upon completion of the School Age Education program, a graduate should be able to:

- Establish trusting and respectful reciprocal relationships with all children, families and communities.
- Assist in the authentic assessment of all children's learning.
- Assist in creating environments that are healthy, respectful, supportive and challenging for all children.
- Implement developmentally effective curriculum that addresses all domains of learning.
- Communicate effectively using standard written and verbal skills.
- Utilize technology to enhance learning for all children.

Degree Awarded

The Associate in Applied Science Degree - School-Age Education is awarded by the College upon completion of this program.

For More Information

The School-Age Education program is in the Allied Health and Public Services Division. For more information call (919) 739-6794, or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

- Students selecting a science course must also meet the requirements for DMA 010 through DMA 050 through the math diagnostic test or course completion prior to receiving a degree.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
EDU 118 Princ and Pract of Inst Ast	3	3
EDU 131 Child, Family, and Community .	3	3
EDU 144 Child Development I	3	3

	Contact Hours	Semester Credit Hours
EDU 162 Observation and Assessment..	3	3
ENG 111 Expository Writing	3	3
		16
SECOND SEMESTER		
CIS 110 Intro to Computers	4	3
COE 111 Co-op Work Experience I.....	10	1
EDU 145 Child Development II	3	3
EDU 163 Classroom Mgt and Instruct.....	3	3
EDU 256 Instr Strat/Social Studies	4	3
ENG 114 Professional Research and Reporting	3	3
		16
SUMMER TERM		
PSY 150 General Psychology.....	3	3
Humanities/Fine Arts Elective ..	3	3
		6
THIRD SEMESTER		
EDU 257 Inst Strat/Math	4	3
EDU 271 Educational Technology.....	4	3
EDU 281 Instr Strat/Read and Writ	4	3
EDU 289 Advanced Issues/School Age ..	2	2
Humanities/Fine Arts Elective ..	3	3
* MAT/Nat Science Elective	3-4	3-4
		17-18
FOURTH SEMESTER		
EDU 221 Children with Exceptional	3	3
EDU 258 Instr Strat/Science	4	3
EDU 282 Early Childhood Lit.....	3	3
EDU 285 Internship Experience.....	10	4
Social/Behav Science Elective	3	3
		16
	Total Credit Hours	71-72
*MAT/Natural Science Elective choices:		
MAT 110 Mathematical Measurement	4	3
MAT 115 Mathematical Models.....	4	3
MAT 161 College Algebra	3	3
BIO 110 Principles of Biology	6	4

Simulation and Game Development (A25450)

Official Program Description registered with the N.C. Community College System:

The Simulation and Game Development curriculum provides a broad background in simulation and game development with practical applications in creative arts, visual arts, audio/video technology, creative writing, modeling, design, programming and management.

Students will receive hands-on training in design, 3D modeling, and programming for the purpose of creating simulations and games.

Graduates should qualify for employment as designers, artists, animators, programmers, testers, quality assurance analysts, engineers and administrators in the entertainment industry, health care, education, corporate training, and government organizations.

Program Learning Outcomes

Upon completion of the Simulation and Game Development program, a graduate should be able to:

- Create advanced simulations and games using industry standard software applications.
- Produce assets using techniques that reflect an understanding of the intended audience within predetermined limitations for a variety of platforms.

- Solve programming and content creation problems through efficient use of resources.
- Communicate simulation and game design concepts to technical and non-technical personnel.
- Identify basic business and legal concepts applied to the games industry.
- Discuss simulation and game design concepts including the history of games.

Degree Awarded

The Associate in Applied Science Degree-Simulation and Game Development is awarded by the college upon completion of this program.

For More Information

The Simulation and Game Development program is in the Business and Computer Technologies Division. For more information call (919) 739-6876 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in Basic Computers, English, mathematics, and reading is required to determine the pre-curriculum (developmental) courses that match individual needs.

First Step To Enroll:

Call the Admission and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
CIS 110 Intro to Computers	4	3
ENG 111 Expository Writing	3	3
SGD 111 Introduction to SGD	5	3
SGD 116 Graphic Design Tools.....	4	3
SGD 158 SGD Business Management ...	3	3
		16
SECOND SEMESTER		
ENG 114 Prof Research and Reporting ..	3	3
SGD 112 SGD Design.....	5	3
SGD 113 SGD Programing	5	3
SGD 114 3D Modeling.....	5	3
Professional Elective	5	3
		15-16
THIRD SEMESTER		
SGD 134 SG Quality Assurance.....	4	3
SGD 174 SG Level Design.....	5	3
SGD 212 SGD Design II.....	5	3
Humanities Elective	3	3
*Professional Elective	5	3
*Math Elective.....	3-5	3-4
		18-19
FOURTH SEMESTER		
SGD 164 SG Audio/Video.....	5	3
SGD 172 Virtual SG Environments.....	5	3
SGD 289 SGD Project.....	5	3
*Professional Elective	5	3
*Professional Elective	5	3
*Social/Behavioral Sci Elective	3	3
		18
	Total Credit Hours	67-68
Professional Electives: (Select 12.0 hours from the following courses)		
CIS 115 Intro to Prog and Logic	5	3
COE 111 Co-op Work Experience I.....	10	1

	Contact Hours	Semester Credit Hours
COE 112 Co-op Work Experience I.....	20	2
COE 121 Co-op Work Experience II.....	10	1
COE 122 Co-op Work Experience II.....	20	2
DBA 110 Database Concepts	5	3
SGD 117 Art for Games	5	3
SGD 125 SG Artificial Intelligence	5	3
SGD 162 3D Animation	5	3
SGD 168 Mobile SG Programming I	5	3
SGD 171 Flash SG Programming	5	3
SGD 214 3D Modeling II.....	5	3
SGD 274 SG Level Design II.....	5	3

Math Elective:

(Select 3.0 hours from the following courses)

	Contact Hours	Semester Credit Hours
MAT 121 Algebra/Trigonometry I	4	3
MAT 161 College Algebra	3	3
MAT 161A College Algebra Lab	2	1
MAT 171 Precalculus Algebra	3	3
MAT 171A Precalculus Algebra Lab	2	1

Sustainability Technologies (A40370)

The Associate in Applied Science degree program in Sustainability Technologies will not be offered during the 2012-2013 academic year. Interested students should enroll in the Building Science Certificate or Energy Management Certificate.

The Sustainability Technologies curriculum is designed to prepare individuals for employment in environmental, construction, alternative energy, manufacturing, or related industries, where key emphasis is placed on energy production and waste reduction along with sustainable technologies.

Course work may include alternative energy, environmental engineering technology, sustainable manufacturing, and green building technology. Additional topics may include sustainability, energy management, waste reduction, renewable energy, site assessment, and environmental responsibility.

Graduates should qualify for positions within the alternative energy, construction, environmental, and/or manufacturing industries. Employment opportunities exist in both the government and private industry sectors where graduates may function as manufacturing technicians, sustainability consultants, environmental technicians, or green building supervisors.

Program Learning Outcomes

Upon completion of the Sustainability Technology program, a graduate should be able to:

- Recognize various alternative energy systems.
- Discuss relevant topics of environmental science and natural resources.
- Select and design an alternative energy system for a typical application.
- Analyze the factors that affect long-term sustainable systems.
- Analyze energy use and identify energy management opportunities.
- Plan and effectively schedule a sustainability related project.

Sustainability Technology - Building Science Certificate (C40370D)

Certificate Awarded

A certificate in Sustainability Technology - Alternative Energy Certificate is awarded by the College upon completion of this program.

For More Information

The Sustainability Technology program is in the Applied Technology Division. For more information, call (919) 739-6818 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ALT 220 Photovoltaic Sys Tech.....	5	3
ALT 250 Thermal Systems.....	4	3
ARC 111 Intro to Arch Technology	7	3
		9

SECOND SEMESTER

SST 110 Intro to Sustainability	3	3
SST 120 Renewable Energy Technology	4	3
SST 140 Green Building Concepts.....	4	2
		8

Total Credit Hours 17

Sustainability Technology - Energy Management Certificate (C40370B)

Certificate Awarded

A certificate in Sustainability Technology - Energy Management Certificate is awarded by the College upon completion of this program.

For More Information

The Sustainability Technology program is in the Applied Technology Division. For more information, call (919) 739-6818 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
SST 110 Intro to Sustainability	3	3
ELC 127 Software for Technicians.....	4	2
OMT 222 Project Management.....	3	3
		8
SECOND SEMESTER		
SST 120 Energy Use Analysis.....	4	3
SST 130 Modeling Renewable Energy...	4	3
SST 140 Green Building Concepts.....	4	2
		8
Total Credit Hours		16

The Associate in Applied Science degree program in Sustainability Technologies will not be offered during the 2012-2013 academic year. Interested students should enroll in the Building Science Certificate or Energy Management Certificate.

Sustainable Agriculture (A15410)

Official Program Description registered with the NC Community College System:

The Sustainable Agriculture program is designed to provide the entrepreneurial and technical skills necessary to manage a profitable, environmentally sound, community based small farm or agricultural business. The objective is the development of a workforce knowledgeable in sustainable agriculture practices.

Students will learn the fundamentals of sustainable agriculture, focusing on crop production and farm business. Emphasis is placed on entrepreneurial and practical field training. Students will complete a business plan and an agricultural internship in marketing and farming.

Graduates should qualify for employment in a variety of positions associated with sustainable agriculture, including horticultural and live stock operations, wholesale and retail produce management, nursery operations, and environmental and agricultural education.

Program Learning Outcomes

Upon completion of the Sustainable Agriculture program, the graduate should be able to:

- Develop a plan to market and promote sustainable and organic produce.
- Identify common plant diseases and their relationship to management practices.
- Recognize the economic importance of non-crop plants and various methods of control.
- Develop a crop rotation plan.
- Communicate effectively.

Degree Awarded

The Associate in Applied Science Degree - Sustainable Agriculture is awarded by the College upon completion of this program.

For More Information

The Sustainable Agriculture program is in the Applied Technology Division. For more information, call (919) 739-6807 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- Placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
AGR 111 Basic Farm Maintenance.....	4	2
AGR 139 Intro to Sustainable Ag.....	3	3
AGR 170 Soil Science.....	4	3
BIO 160 Introductory Life Science.....	4	3
ENG 111 Expository Writing.....	3	3
		15
SECOND SEMESTER		
AGR 150 Ag-O-Metrics.....	3	3
AGR 110 Agricultural Economics.....	3	3
AGR 160 Plant Science.....	4	3
CIS 110 Introduction to Computers.....	4	3
COE 110 World of Work.....	1	1
ENG 114 Profess. Research and Rep.....	3	3
		16
SUMMER TERM		
COE 111 Co-op Work Experience I.....	10	1
AGR 121 Biological Pest Mgmt.....	3	3
		4
THIRD SEMESTER		
AGR 210 Agricultural Accounting.....	5	3
AGR 213 Ag Law and Finance.....	3	3
BUS 151 People Skills.....	3	3
BUS 280 REAL Small Business.....	4	4
Humanities Elective.....	3	3
		16
FOURTH SEMESTER		
AGR 212 Farm Business Management...	3	3
AGR 214 Agricultural Marketing.....	3	3
AGR 262 Weed ID and Control.....	5	3
AGR 265 Organic Crop Production: Spring	4	3
Social/Behavior Science Elective	3	3
		15
	Total Credit Hours	66



Sustainable Agriculture Certificate (C15410)

Certificate Awarded

A certificate in Sustainable Agriculture is awarded by the College upon completion of this program.

For More Information

The Sustainable Agriculture program is in the Applied Technology Division. For more information, call (919) 739-6807 or visit us at our web site at www.waynecc.edu.

First Step to Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
AGR 111 Basic Farm Maintenance	4	2
AGR 139 Intro to Sustainable Ag.....	3	3
BUS 280 REAL Small Business.....	4	4
		9
SECOND SEMESTER		
AGR 262 Weed ID and Control	5	3
AGR 265 Organic Crop Prod: Spring	4	3
		6
SUMMER SEMESTER		
AGR 121 Biological Pest Mgmt	3	3
		3
Total Credit Hours		18

Turfgrass Management Technology (A15420)

Official Program Description registered with the NC Community College System:

The Turfgrass Management Technology curriculum is designed to provide skills necessary to perform duties related to management of golf courses, sports fields, lawn care, irrigation design, and sod production.

Course work includes turfgrass management, irrigation, ornamental horticulture, soil science, entomology, plant pathology, as well as courses in communications, computers, and the social sciences.

Graduates should qualify for employment at golf courses, local, state, and national parks, sports complexes, highway vegetation and turf maintenance companies, and private and public gardens. Graduates should also be prepared to take the examination for the North Carolina pesticide licenses.

Program Learning Outcomes

Upon successful completion of the Turfgrass Management Technology program of study, the student will be able to:

- Develop both establishment and maintenance plans for high quality turfgrass areas.
- Make recommendations regarding nutrient management of soil and methods of weed control.
- Complete functional design for a turfgrass irrigation system.
- Demonstrate the ability to perform calculations needed in the Turfgrass field.
- Operate and maintain turfgrass management equipment.
- Turfgrass program and use for integrated pest management

Degree Awarded

The Associate in Applied Science Degree - Turfgrass Management Technology is awarded by the College upon completion of this program.

For More Information

The Turfgrass Management Technology program is in the Applied Technology Division. For more information, call (919) 739-6811 or visit us at our web site at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading, and computer skills are required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
AGR 170 Soil Science	4	3
CIS 110 Introduction to Computers	4	3
TRF 110 Intro to Turfgrass Cultivation and ID	5	4
TRF 210 Turfgrass Equipment Management.....	5	3
		14
SECOND SEMESTER		
AGR 110 Agricultural Economics	3	3
AGR 150 Ag-O-Metrics.....	3	3
COE 110 World of Work	1	1
ENG 111 Expository Writing.....	3	3
MAT 115 Mathematical Models.....	4	3
TRF 120 Turfgrass Irrigat and Design ...	6	4
		17
SUMMER TERM		
AGR 140 Agricultural Chemicals	4	3
COE 112 Co-op Work Experience I.....	20	2
HOR 150 Intro to Horticulture	2	2
		7
THIRD SEMESTER		
AGR 210 Ag Accounting.....	5	3
BUS 151 People Skills	3	3
ENG 114 Prof Research and Reporting ..	3	3
TRF 152 Landscape Maintenance.....	4	3
TRF 230 Turfgrass Management App.....	3	2
Humanities/Fine Arts Elective..	3	3
		17
FOURTH SEMESTER		
AGR 262 Weed ID and Control	5	3
TRF 240 Turfgrass Pest Control.....	4	3
TRF 260 Adv Turfgrass Management.....	5	4
Social/Behavioral Science Elective	3	3
		13
Total Credit Hours		68

Turfgrass Management Technology Certificate (C15420)

Certificate Awarded

A certificate in Turfgrass Management Technology is awarded by the College upon completion of this program.

For More Information

The Turfgrass Management Technology program is in the Applied Technology Division. For more information, call (919) 739-6810 or visit us at our web site at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
TRF 230 Turfgrass Mgmt Applications....	3	2
TRF 110 Intro to Turfgrass.....	5	4
TRF 152 Turfgrass Maintenance	4	3
		9
SECOND SEMESTER		
TRF 120 Turfgrass Irrigation.....	6	4
AGR 262 Weed ID and Control	5	3
		7
Total Credit Hours		16

Welding Technology Diploma (D50420)

Official Program Description registered with the NC Community College System:

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.

Program Learning Outcomes

Upon completion of the Welding Technology program, a graduate should be able to:

- Demonstrate a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry.
- Perform consumable and non-consumable electrode welding and cutting processes which include the following: SMAW (Stick), GMAW (MIG), FCAW, GTAW (TIG), OFW (Oxyacetylene welding), OFC (Oxyacetylene cutting), PAC (plasma arc cutting), Air Carbon Arc Gouging, and SAW (Submerged Arc Welding).
- Demonstrate competency in the basic understanding and practical application of the principles of, fabrication processes theory and safety, cutting metal with shear, chop saw and band saw, drilling and punching holes, bending metal with box/pan break, fabricate a metal project.

Diploma Awarded

A Diploma in the Welding Technology program is awarded by the College upon completion of this program.

Note

Students are required to purchase a few specific tools. Costs are available by calling a Welding Technology instructor at (919) 739-6806 or (919) 739-6816.

For More Information

The Welding Technology program is in the Applied Technology Division. For more information, call (919) 739-6806 or (919) 739-6816 or visit us at our web site at www.waynecc.edu.

Admissions

A placement test in mathematics, and reading (080) is required to determine entry-level courses that match individual needs.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.



	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ENG 102 Applied Communication II	3	3
WLD 110 Cutting Processes.....	4	2
WLD 112 Basic Welding Processes	4	2
WLD 115 SMAW (Stick) Plate	11	5
WLD 121 GMAW (MIG) FCAW/Plate.....	8	4
		17
SECOND SEMESTER		
MAT 101 Applied Mathematics I	4	3
WLD 116 SMAW (Stick)Plate/Pipe	10	4
WLD 122 GMAW (MIG) Plate/Pipe.....	7	3
WLD 131 GTAW (TIG) Plate.....	8	4
		14
SUMMER TERM		
WLD 132 GTAW (TIG) Plate/Pipe.....	7	3
WLD 141 Symbols and Specifications.....	4	3
		6
Total Credit Hours		37

Welding Technology (D50420) Evening Option

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
ACA 111 College Student Success.....	1	1
ENG 102 Applied Communications II	3	3
WLD 110 Cutting Processes.....	4	2
WLD 112 Basic Welding Processes	4	2
WLD 115 SMAW (Stick) Plate	11	5
WLD 121 GMAW (MIG) FCAW/Plate.....	8	4
		17
SECOND SEMESTER		
MAT 101 Applied Mathematics I	4	3
WLD 116 SMAW (Stick)Plate/Pipe	10	4
WLD 122 GMAW (MIG) Plate/Pipe.....	7	3
WLD 131 GTAW (TIG) Plate.....	8	4
		14
SUMMER TERM		
WLD 132 GTAW (TIG) Plate/Pipe.....	7	3
WLD 141 Symbols and Specifications.....	4	3
		6
Total Credit Hours		37

Welding Technology - MIG Welding Certificate (C50420MG)

Certificate Awarded

A certificate in Welding Technology-MIG Welding is awarded by the College upon completion of this program.

Note

Students are required to purchase a few specific tools. Costs are available by calling a Welding Technology instructor at (919) 739-6816.

For More Information

The Welding Technology program is in the Applied Technology Division. For more information, call (919) 739-6816 or visit us at our web site at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
WLD 112 Basic Welding Processes	4	2
WLD 121 GMAW (MIG) FCAW/Plate.....	8	4
		6
SECOND SEMESTER		
WLD 122 GMAW (MIG) Plate/Pipe.....	7	3
		3
SUMMER TERM		
WLD 141 Symbols and Specifications.....	4	3
		3
Total Credit Hours		12

Welding Technology - Stick Welding Certificate (C50420S)

Certificate Awarded

A certificate in Welding Technology-Stick Welding is awarded by the College upon completion of this program.

Note

Students are required to purchase a few specific tools. Costs are available by calling a Welding Technology instructor at (919) 739-6816.

For More Information

The Welding Technology program is in the Applied Technology Division. For more information, call (919) 739-6816 or visit us at our web site at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
WLD 112 Basic Welding Processes	4	2
WLD 115 SMAW (Stick) Plate	11	5
		7
SECOND SEMESTER		
WLD 116 SMAW (Stick) Plate/Pipe	10	4
		4
SUMMER TERM		
WLD 141 Symbols and Specifications.....	4	3
		3
Total Credit Hours		14

Welding Technology-Certificate in TIG Welding (C50420TG)

Certificate Awarded

A certificate in Welding Technology-TIG Welding is awarded by the College upon completion of this program.

Note

Students are required to purchase a few specific tools. Costs are available by calling a Welding Technology instructor at (919) 739-6816.

For More Information

The Welding Technology program is in the Applied Technology Division. For more information, call (919) 739-6816 or visit us at our web site at www.waynecc.edu.

First Step To Enroll:

Call the Admissions and Records Office at (919) 739-6720.

	Contact Hours	Semester Credit Hours
FIRST SEMESTER		
WLD 112 Basic Welding Processes	4	2
		2
SECOND SEMESTER		
WLD 131 GTAW (TIG) Plate.....	8	4
		4
SUMMER TERM		
WLD 132 GTAW (TIG) Plate/Pipe.....	7	3
WLD 141 Symbols and Specifications.....	4	3
		6
Total Credit Hours		12

Optional General Education Courses for AAS Programs

The following courses may be used to meet the General Education course requirements in Humanities/Fine Arts and Social/Behavioral Sciences.

Humanities/Fine Arts Electives

ART 111	Art Appreciation
ART 114	Art History Survey I
ART 115	Art History Survey II
DRA 111	Theatre Appreciation
DRA 126	Storytelling
DRA 211	Theatre History I
ENG 231	American Literature I
ENG 232	American Literature II
ENG 241	British Literature I
ENG 242	British Literature II
ENG 261	World Literature I
ENG 262	World Literature II
ENG 273	African-American Literature
HUM 110	Technology and Society
HUM 115	Critical Thinking
HUM 120	Cultural Studies
HUM 121	The Nature of America
HUM 130	Myth in Human Culture
HUM 211	Humanities I
MUS 110	Music Appreciation
PHI 215	Philosophical Issues
PHI 240	Introduction to Ethics
REL 110	World Religions
REL 211	Introduction to Old Testament

REL 212 Introduction to New Testament
REL 221 Religion in America

Social/Behavioral Science Electives

ANT 210 General Anthropology
ECO 251 Principles of Microeconomics
ECO 252 Principles of Macroeconomics
GEO 111 World Regional Geography
HIS 111 World Civilizations I
HIS 112 World Civilizations II
HIS 121 Western Civilization I
HIS 122 Western Civilization II
HIS 131 American History I
HIS 132 American History II
HIS 162 Women and History
HIS 221 African-American History
POL 120 American Government
PSY 150 General Psychology
PSY 237 Social Psychology
SOC 210 Introduction to Sociology
SOC 213 Sociology of the Family
SOC 220 Social Problems
SOC 225 Social Diversity
SOC 230 Race and Ethnic Relations
SOC 242 Sociology of Deviance

Note

A required General Education course in an AAS program may not be used to meet the Humanities/Fine Arts or Social/Behavioral Science requirement.

Associate in General Education Program (A10300)

Program Description

The Associate in General Education curriculum is designed for the academic enrichment of students who wish to broaden their education, with emphasis on personal interest, growth and development.

Course work includes study in the areas of humanities and fine arts, social and behavioral sciences, natural sciences and mathematics, and English composition. Opportunities for the achievement of competence in reading, writing, oral communication, fundamental mathematical skills, and the basic use of computers will be provided.

Through the skills, students will have a sound base for lifelong learning. Graduates are prepared for advancements within their field of interest and become better qualified for a wide range of employment opportunities.

Program Learning Outcomes

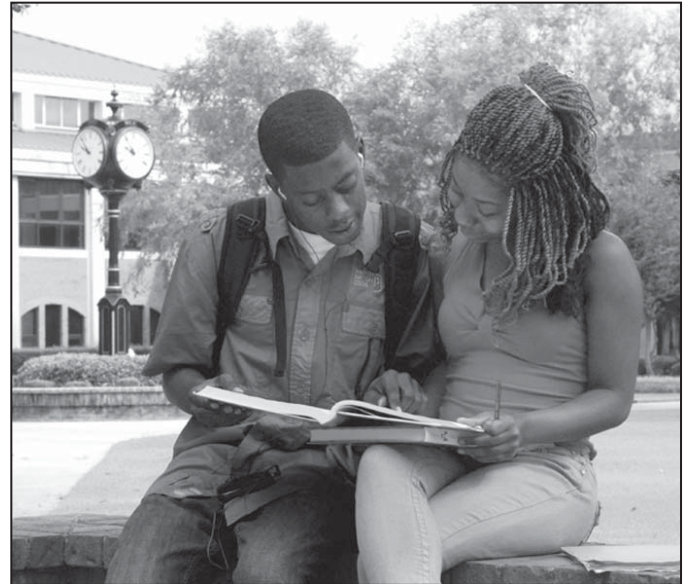
Specific program outcomes are not available for this program but are taken from the outcomes listed in the chosen professional areas.

Degree Awarded

Associate in General Education

Note:

- Courses must be at the 110-199 or 210-299 level.
- Students should note, however, that they must satisfy any course prerequisites listed.
- Although some of the courses may be equivalent to college transfer courses, the program is not intended for students who want to transfer to a four-year institution.
- The AGE program is also to prepare students to enter one of the limited admission health science fields. Students may be placed into the AGE program until they are admitted into their intended major: Associate



Degree Nursing, Practical Nursing, Dental Hygiene, or Dental Assisting. If AGE students are unable to meet the minimum requirements to apply to these programs, students should work closely with an advisor to determine a more appropriate course of study.

For More Information

For more information, call (919) 739-6755 or visit our website at www.waynecc.edu.

Admissions

- A high school diploma or equivalent is required.
- A placement test in English, mathematics, reading and computer skills are required to determine entry-level courses that match individual needs.
- Students are required to demonstrate competency in MAT 070 through the placement test or course completion with a grade of C or better prior to receiving a degree.

General Education Courses

	Semester Credit Hours
English Composition	6
Humanities/Fine Arts	3
Social/Behavioral Sciences	3
Natural Sciences/Mathematics	3
	15
Other Required Hours	49-50

Recommended Courses:

English Composition (Select 6 SHC):

Required Course: ENG 111

Select one of the following:

Composition (Select 3 SHC): ENG 113, ENG 114

Humanities/Fine Arts (Select 3 SHC):

Select one of the following:

Art (ART 111, 114, 115)

Communication (COM 110, 120, 140, 231)

Drama (DRA 111, 126, 211)

Humanities (HUM 110, 115, 120, 121, 122, 211)

Literature (ENG 131, 231, 232, 241, 242, 261, 262, 273)

Music (MUS 110)

Philosophy (PHI 215, 240)

Religion (REL 110, 211, 212, 221)

Social/Behavioral Science (Select 3 SHC):

Select one of the following:

Anthropology (ANT 210)

Economics (ECO 251, 252)

Geography (GEO 111)

History (HIS 111, 112, 121, 122, 131, 132, 162, 221, 226, 228, 236)

Political Science (POL 120)

Psychology (PSY 150, 237, 241, 281)

Sociology (SOC 210, 213, 220, 225, 230)

Natural Sciences/Mathematics (3 SHC-4 SHC)

Select one of the following:

Astronomy (AST 111 and 111A)

Biology

(BIO 110 or 111, 112, 130, 140 and 140A, 163, 168, 169, 175, 275)

Chemistry (CHM 131 and 131A, 132, 151, 152)

Computer Science (CIS 110, 115)

Mathematics (MAT 151, 161, 171, 172, 263, 271, 272, 273)

Physics (PHY 151, 152, 251, 252)

OTHER REQUIRED HOURS (Select 48-49 SHC):

Other required hours include any additional general education, college transfer, or technical courses. A maximum of 6 SHC in health, physical education, college orientation, and/or study skills may be included as other required hours.

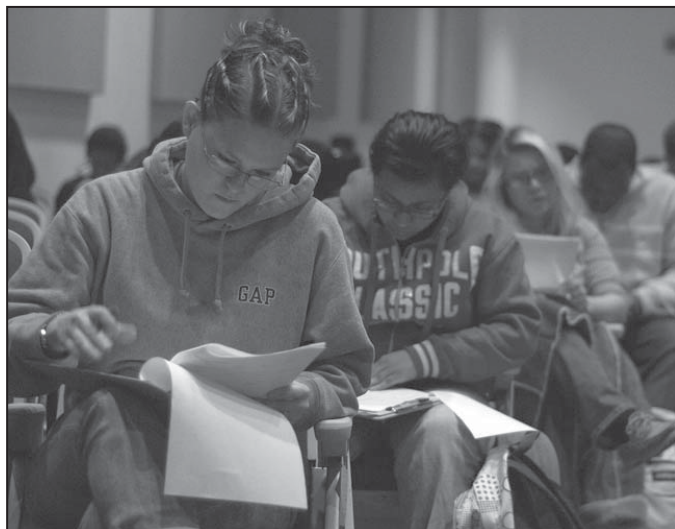
Total Credit Hours**64-65****Associate In Arts, and Associate In Science Programs****Program Descriptions**

The Associate Degree Programs in arts and science prepare students to transfer to a four-year college for a baccalaureate degree (B.A. or B.S.). Graduates of these two-year programs complete the academic requirements and develop the skills in analysis, interpretation, and communication necessary for transfer to a four-year institution.

Program Learning Outcomes

Upon completion of the AA and AS program, a graduate should be able to:

- Identify and evaluate the source, context, and credibility of information.
- Communicate information to a variety of audiences using appropriate written methods.
- Apply appropriate mathematics to solve real world problems.

**Degrees Awarded**

Associate in Arts Degree (AA)

Associate in Science Degree (AS)

Requirements

- Completion of a minimum of 65 semester hours credit.
- 2.0 grade-point average in program.

Note

Transfer requirements vary among four-year colleges and universities; therefore, students need to visit website for relevant transfer information from the institution they plan to attend. Using this information, counselors and academic advisors at WCC assist students in planning their course of study.

For More Information

Call the Director of the College Transfer Advising Center at (919) 739-6755 or visit us at our web site at www.waynec.edu.

The College Transfer Advising Center offers students pursuing the Associates in Arts and Associate in Science degrees a central location to seek academic advising. The center is open from 7:45 a.m. to 5:30 p.m. on Monday thru Wednesday, 9:15 a.m. to 7:00 p.m. on Thursday, and 8:00 a.m. to 1:00 p.m. on Friday. The College Transfer Advising Center is located in the Wayne Learning Center on the first floor Room 137.

College Transfer**Minimum Course Requirements (MCR)**

To enroll in a senior institution in the University of North Carolina (UNC) System, students whose high school class graduated in 1990 or later must have completed the following high school requirements:

- Four (4) units of English (emphasizing grammar, composition, and literature).
- Four (4) units of mathematics in any of the following combinations.
 - Algebra I and II, Geometry, and one unit beyond Algebra II,
 - Algebra I and II, and two units beyond Algebra II, or
 - integrated Math I, II and III, and one unit beyond integrated Math III.
- Two (2) units of social studies (including one unit of US history).
- Three (3) units of science (including a unit of life or biological science, a unit of physical science, and at least one laboratory course).
- Two (2) units of the same foreign language.

Removal of High School Deficiencies

Transfer students that did not meet the University of North Carolina minimum course requirements at the high school level must do one of the following before transferring:

1. Earn an Associate of Arts Degree or an Associate of Science Degree
or
2. Complete the 44 hour general education core
or
3. Complete at the college level all of the following:
 - Six (6) semester hours of English.
 - Six (6) semester hours of college level mathematics (Some universities will allow a college transfer computer course - CIS 110 or CIS 115 - to fulfill the second math requirement. Students should always check with the Admissions Office of the receiving institution.)
 - Six (6) semester hours of natural sciences.
 - Six (6) semester hours of social and behavioral sciences.

- Six (6) semester hours of the same foreign language. (For students who graduate from high school in 2003-2004 and beyond)

The North Carolina Comprehensive Articulation Agreement

The North Carolina Comprehensive Articulation Agreement (CAA) is a statewide agreement governing the transfer of credits between North Carolina Community Colleges and North Carolina Public Universities and has as its objective, the smooth transfer of students. The CAA includes two degrees at the community college level: the Associate in Arts and the Associate in Science. Both degrees consist of a general education core and electives. The general education transfer core reflects the distribution of discipline areas commonly included in institution-wide, lower division, general education requirements for the baccalaureate degree. The general education core includes study in the following areas: English composition, humanities/fine arts, social/behavioral sciences, and natural sciences/mathematics. Community colleges and universities have identified community college courses appropriate to a general education transfer core. These courses are listed in this section of the catalog.

Transfer Assured Admissions Policy (TAAP)

The CAA addresses the admission of community college graduates to UNC institutions and the transfer of credits between institutions within the North Carolina Community College System and institutions within The University of North Carolina.

The CAA assures admission to one of the 16 UNC institutions with the following stipulations:

- Admission is not assured to a specific campus or specific program or major.
- Students must have graduated from a North Carolina community college with an Associate in Arts or Associate in Science degree.
- Students must meet all requirements of the CAA.
- Students must have an overall GPA of at least 2.0 on a 4.0 scale, as calculated by the college from which they graduated, and a grade of "C" or better in all CAA courses.
- Students must be academically eligible for re-admission to the last institution attended.
- Students must meet judicial requirements of the institution to which they apply.
- Students must meet all application requirements at the receiving institution including the submission of all required documentation by stated deadlines.

The major components of the CAA are described below:

- The CAA enables North Carolina Community College graduates of two-year Associate in Arts(AA) and Associate in Science(AS) degree programs who are admitted to constituent institutions of the University of North Carolina to transfer with junior status.
- Universities cannot place requirements on students transferring under the CAA that are not required of their native students.
- Transfer students will be considered to have satisfied the UNC Minimum Course Requirements (MCR) in effect at the time of their graduation from high school if they have:
 1. received the Associate in Arts, the Associate in Science, the associate in fine arts, the baccalaureate or any higher degree, or
 2. completed the 44-hour general education core, or
 3. completed at least six (6) semester hours in degree-credit in each of the following subjects: English, mathematics, the natural sciences, and social/behavioral sciences, and (for students who graduate from high school in 2003-2004 and beyond) a second language.

- Community college students who have completed the general education core will be considered to have fulfilled the institution-wide, lower-division general education requirements of the receiving institution.
- Community college graduates of these programs who have earned 64 semester hours in approved transfer courses with a grade of "C" or better 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.
- Requirements for admission to some major programs may require additional pre-specialty courses beyond the pre-major taken at the community college. Students entering such programs may need more than two academic years of course work to complete the baccalaureate degree, depending on requirements of the program.
- All courses approved for transfer in the CAA are designated as fulfilling general education, pre-major or elective requirements. While general education and pre-major courses may also be used as electives, elective courses may not be used to fulfill general education requirements.
- CAA courses taken beyond the 64'shc of credit in which the student received less than a "C" will not negate the provisions of the CAA.
- Community college students who have not completed the general education core will have their transcripts evaluated on a course-by-course basis by the receiving institution; and the students will come under the basic studies requirements of the receiving institution.

Associate In Arts Program (A10100)

The Associate in Arts Degree is for students desiring to pursue liberal arts, fine arts and pre-professional programs in areas other than the sciences.

Transfer Core Diploma - Arts (D10100)

The Transfer Core Diploma - Arts may be awarded to students who complete the following:

The 44-hour general education core of the Associate in Arts program with a "C" or better in each course and ACA 122 or ACA 111 (see below).

Students who earn this diploma are awarded the Associate in Arts degree upon completion of the 20 other required hours in that program.

I. Associate In Arts A10100

General Education Core (44 SHC)

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.

A. English Composition		(6 SHC)
ENG 111	Expository Writing	3 SHC
ENG 113	Literature-Based Research	3 SHC

B. Humanities/Fine Arts (12 SHC)

Select FOUR courses from THREE of the following discipline areas: music, art, drama, foreign language, interdisciplinary humanities, literature, philosophy and religion. ONE COURSE MUST BE A COMMUNICATION COURSE AND ONE COURSE MUST BE A LITERATURE COURSE. If a foreign language is selected, a two-course sequence, including accompanying lab, is required.

1. COM 110	Intro to Communication	3 SHC
COM 120	Interpersonal Communication	3 SHC
COM 140	Intro to Intercultural Communication	3 SHC
COM 231	Public Speaking	3 SHC



2.	ENG 131	Intro to Literature	3 SHC
	ENG 231	American Literature I	3 SHC
	ENG 232	American Literature II	3 SHC
	ENG 241	British Literature I	3 SHC
	ENG 242	British Literature II	3 SHC
	ENG 261	World Literature I	3 SHC
	ENG 262	World Literature II	3 SHC
3.	ART 111	Art Appreciation	3 SHC
	ART 114	Art History Survey I	3 SHC
	ART 115	Art History Survey II	3 SHC
4.	CHI 111	Elementary Chinese I	3 SHC
	CHI 112	Elementary Chinese II	3 SHC
5.	DRA 111	Theatre Appreciation	3 SHC
	DRA 126	Storytelling	3 SHC
	DRA 211	Theatre History I	3 SHC
6.	FRE 111	Elementary French I	3 SHC
	FRE 112	Elementary French II	3 SHC
	FRE 211	Intermediate French I	3 SHC
	FRE 212	Intermediate French II	3 SHC
7.	HUM 110	Technology and Society	3 SHC
	HUM 115	Critical Thinking	3 SHC
	HUM 120	Cultural Studies	3 SHC
	HUM 121	The Nature of a.m.erica	3 SHC
	HUM 122	Southern Culture	3 SHC
	HUM 130	Myth in Human Culture	3 SHC
	HUM 211	Humanities I	3 SHC
8.	JPN 111	Elementary Japanese I	3 SHC
	JPN 112	Elementary Japanese II	3 SHC
9.	MUS 110	Music Appreciation	3 SHC
10.	PHI 215	Philosophical Issues	3 SHC
	PHI 240	Introduction to Ethics	3 SHC
11.	REL 110	World Religions	3 SHC
	REL 211	Into. to Old Testament	3 SHC
	REL 212	Into. to New Testament	3 SHC
	REL 221	Religion in America	3 SHC
12.	SPA 111	Elementary Spanish I	3 SHC
	SPA 112	Elementary Spanish II	3 SHC
	SPA 211	Intermediate Spanish I	3 SHC
	SPA 212	Intermediate Spanish II	3 SHC

C. 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. ONE COURSE MUST BE A HISTORY COURSE.

1.	ANT 210	General Anthropology	3 SHC
2.	ECO 251	Prin of Microeconomics	3 SHC
	ECO 252	Prin of Macroeconomics	3 SHC
3.	GEO 111	World Regional Geography	3 SHC
4.	HIS 111	World Civilizations I	3 SHC
	HIS 112	World Civilizations II	3 SHC
	HIS 121	Western Civilization I	3 SHC
	HIS 122	Western Civilization II	3 SHC
	HIS 131	American History I	3 SHC
	HIS 132	American History II	3 SHC
5.	POL 120	American Government	3 SHC
6.	PSY 150	General Psychology	3 SHC
	PSY 237	Social Psychology	3 SHC
	PSY 241	Developmental Psychology	3 SHC
	PSY 281	Abnormal Psychology	3 SHC
7.	SOC 210	Introduction to Sociology	3 SHC
	SOC 213	Sociology of the Family	3 SHC
	SOC 220	Social Problems	3 SHC
	SOC 225	Social Diversity	3 SHC
	SOC 230	Race and Ethnic Relations	3 SHC

D. Natural Sciences/Mathematics (14 SHC)

Natural Sciences

(8 SHC)

Select TWO courses, including accompanying lab, from among the biological and physical sciences.

1.	AST 111	Descriptive Astronomy	3 SHC
	AST 111A	Descriptive Astronomy Lab	1 SHC
2.	BIO 110	Principles of Biology	4 SHC
	BIO 111	General Biology I	4 SHC
	BIO 112	General Biology II	4 SHC
	BIO 130	Introductory Zoology	4 SHC
	BIO 140	Environmental Biology	3 SHC
	BIO 140A	Environmental Biology Lab	1 SHC
3.	CHM 131	Introduction to Chemistry	3 SHC
	CHM 131A	Introduction to Chemistry Lab	1 SHC
	CHM 132	Organic and Biochemistry	4 SHC
	CHM 151	General Chemistry I	4 SHC
	CHM 152	General Chemistry II	4 SHC
4.	PHY 151	College Physics I	4 SHC
	PHY 152	College Physics II	4 SHC
	PHY 251	General Physics I	4 SHC
	PHY 252	General Physics II	4 SHC

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.

1.	MAT 141	Mathematical Concepts I	3 SHC
	MAT 161	College Algebra	3 SHC
	MAT 171	Precalculus Algebra	3 SHC
	MAT 172	Precalculus Trigonometry	3 SHC
	MAT 271	Calculus I	4 SHC
2.	CIS 110	Introduction to Computers	3 SHC
	CIS 115	Into to Prog and Logic	3 SHC

II. OTHER REQUIRED HOURS

(21 SHC)

Other required hours may be selected from the general education courses that were not used from the above list and the electives that are listed below. NOTE: While general education courses may be used as electives, electives may not be used to fulfill general education requirements.

ACA 111	College Student Success	1 SHC
	or	
ACA 122	College Transfer Success (preferred)	1 SHC
ACC 120	Prin of Financial Accounting	4 SHC
ACC 121	Prin of Managerial Accounting	4 SHC
ART 121	Two Dimensional Design	3 SHC
ART 122	Three Dimensional Design	3 SHC
ART 131	Drawing I	3 SHC
ART 132	Drawing II	3 SHC
BIO 163	Basic Anatomy and Physiology	5 SHC
BIO 168	Anatomy and Physiology I	4 SHC
BIO 169	Anatomy and Physiology II	4 SHC
BIO 175	General Microbiology	3 SHC
BIO 243	Marine Biology	4 SHC
BIO 250	Genetics	4 SHC
BIO 275	Microbiology	4 SHC
BIO 280	Biotechnology	3 SHC
BUS 110	Introduction to Business	3 SHC
BUS 115	Business Law I	3 SHC
BUS 137	Principles of Management	3 SHC
CHI 181	Chinese Lab I	1 SCH
CHI 182	Chinese Lab II	1 SCH
CHM 130	Gen., Org., and Biochemistry	3 SHC
CHM 130A	Gen., Org., and Biochemistry Lab	1 SHC
CHM 251	Organic Chemistry I	4 SHC
CHM 252	Organic Chemistry II	4 SHC
CJC 111	Intro to Criminal Justice	3 SHC
CJC 121	Law Enforcement Operations	3 SHC
CJC 141	Corrections	3 SHC
CSC 134	C++ Programming	3 SHC
CSC 151	Java Programming	3 SHC
DRA 120	Voice for Performance	3 SHC
DRA 130	Acting I	3 SHC
DRA 131	Acting II	3 SHC
DRA 140	Stagecraft I	3 SHC
DRA 145	Stage Make-up	2 SHC
DRA 170	Play Production I	3 SHC
DRA 171	Play Production II	3 SHC
DRA 260	Directing	3 SHC
EDU 144	Child Development I	3 SHC
EDU 145	Child Development II	3 SHC
EDU 146	Child Guidance	3 SHC
EDU 216	Foundations of Education	4 SHC
EGR 150	Intro to Engineering	2 SHC
EGR 220	Engineering Statics	3 SHC
ENG 125	Creative Writing	3 SHC
ENG 126	Creative Writing II	3 SHC
ENG 132	Introduction to Drama	3 SHC
ENG 235	Survey Film as Literature	3 SHC
ENG 273	African-American Literature	3 SHC
FRE 181	French Lab 1	1 SHC
FRE 182	French Lab 2	1 SHC
FRE 281	French Lab 3	1 SHC
FRE 282	French Lab 4	1 SHC
HEA 110	Personal Health/Wellness	3 SHC

HEA 112	First Aid and CPR	2 SHC
HIS 116	Current World Problems	3 SHC
HIS 162	Women and History	3 SHC
HIS 221	African-American History	3 SHC
HIS 226	The Civil War	3 SHC
HIS 228	History of the South	3 SHC
HIS 236	North Carolina History	3 SHC
HUM 230	Leadership Development	3 SHC
JPN 181	Japanese Lab I	1 SHC
JPN 182	Japanese Lab II	1 SHC
JOU 110	Intro to Journalism	3 SHC
MAT 151	Statistics I	3 SHC
MAT 161A	College Algebra Lab	1 SHC
MAT 171A	Precalculus Algebra Lab	1 SHC
MAT 172A	Precalculus Trigonometry Lab	1 SHC
MAT 263	Brief Calculus	3 SHC
MAT 272	Calculus II	4 SHC
MAT 273	Calculus III	4 SHC
MAT 285	Differential Equations	3 SHC
MUS 111	Fundamentals of Music	3 SHC
MUS 131	Chorus I	1 SHC
MUS 132	Chorus II	1 SHC
MUS 151	Class Music I	1 SHC
MUS 152	Class Music II	1 SHC
MUS 212	American Musical Theatre	3 SHC
MUS 231	Chorus III	1 SHC
MUS 232	Chorus IV	1 SHC
MUS 251	Class Music III	1 SHC
MUS 252	Class Music IV	1 SHC
PED 110	Fit and Well for Life	2 SHC
PED 113	Aerobics I	1 SHC
PED 117	Weight Training I	1 SHC
PED 120	Walking for Fitness	1 SHC
PED 121	Walk, Jog, Run	1 SHC
PED 122	Yoga I	1 SHC
PED 128	Golf-Beginning	1 SHC
PED 130	Tennis-Beginning	1 SHC
PED 131	Intermediate Tennis	1 SHC
PED 132	Racquetball-Beginning	1 SHC
PED 139	Bowling-Beginning	1 SHC
PED 148	Softball	1 SHC
PED 152	Swimming-Beginning	1 SHC
POL 130	State and Local Government	3 SHC
PSY 263	Educational Psychology	3 SHC
SOC 242	Sociology of Deviance	3 SHC
SPA 181	Spanish Lab 1	1 SHC
SPA 182	Spanish Lab 2	1 SHC
SPA 281	Spanish Lab 3	1 SHC
SPA 282	Spanish Lab 4	1 SHC

Associate In Science Program (A10400)

The Associate of Science Degree is for students desiring to enter science and/or math related fields.

Transfer Core Diploma - Science (D10400)

The Transfer Core Diploma - Science may be awarded to students who complete the following:

The 44-45 hour general education core of the Associate in Science program with a "C" or better in each course and ACA 122 or ACA 111 (see below).

Students who earn this diploma are awarded the Associate in Science degree upon completion of the 20 other required hours in that program.

I. Associate In Science A10400**General Education Core** (44-45 SHC)

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.

A. English Composition (6 SHC)

ENG 111	Expository Writing	3 SHC
ENG 113	Literature-Based Research	3 SHC

B. Humanities/Fine Arts (9 SHC)

Select THREE courses from THREE of the following discipline areas: music, art, drama, foreign language, interdisciplinary humanities, literature, philosophy and religion. ONE COURSE MUST BE A COMMUNICATION COURSE AND ONE COURSE MUST BE A LITERATURE COURSE.

1.	COM 110	Intro to Communication	3 SHC
	COM 120	Interpersonal Communication	3 SHC
	COM 140	Intro to Intercultural Communication	3 SHC
	COM 231	Public Speaking	3 SHC
2.	ENG 131	Intro to Literature	3 SHC
	ENG 231	American Literature I	3 SHC
	ENG 232	American Literature II	3 SHC
	ENG 241	British Literature I	3 SHC
	ENG 242	British Literature II	3 SHC
	ENG 261	World Literature I	3 SHC
	ENG 262	World Literature II	3 SHC
3.	ART 111	Art Appreciation	3 SHC
	ART 114	Art History Survey I	3 SHC
	ART 115	Art History Survey II	3 SHC
4.	DRA 111	Theatre Appreciation	3 SHC
	DRA 126	Storytelling	3 SHC
	DRA 211	Theatre History I	3 SHC
5.	HUM 110	Technology and Society	3 SHC
	HUM 115	Critical Thinking	3 SHC
	HUM 120	Cultural Studies	3 SHC
	HUM 121	The Nature of America	3 SHC
	HUM 122	Southern Culture	3 SHC
	HUM 130	Myth in Human Culture	3 SHC
	HUM 211	Humanities I	3 SHC
6.	MUS 110	Music Appreciation	3 SHC
7.	PHI 215	Philosophical Issues	3 SHC
	PHI 240	Introduction to Ethics	3 SHC
8.	REL 110	World Religion	3 SHC
	REL 211	Intro. to Old Testament	3 SHC
	REL 212	Intro. to New Testament	3 SHC
	REL 221	Religion in America	3 SHC

C. Social/Behavioral Sciences (9 SHC)

Select THREE courses from THREE of the following discipline areas: anthropology, economics, geography, history, political science, psychology, and sociology. ONE COURSE MUST BE A HISTORY COURSE.

1.	ANT 210	General Anthropology	3 SHC
2.	ECO 251	Prin of Microeconomics	3 SHC
	ECO 252	Prin of Macroeconomics	3 SHC
3.	GEO 111	World Regional Geography	3 SHC
4.	HIS 111	World Civilizations I	3 SHC
	HIS 112	World Civilizations II	3 SHC
	HIS 121	Western Civilization I	3 SHC

	HIS 122	Western Civilization II	3 SHC
	HIS 131	American History I	3 SHC
	HIS 132	American History II	3 SHC
5.	POL 120	American Government	3 SHC
6.	PSY 150	General Psychology	3 SHC
	PSY 237	Social Psychology	3 SHC
	PSY 241	Developmental Psychology	3 SHC
	PSY 281	Abnormal Psychology	3 SHC
7.	SOC 210	Introduction to Sociology	3 SHC
	SOC 213	Sociology of the Family	3 SHC
	SOC 220	Social Problems	3 SHC
	SOC 225	Social Diversity	3 SHC
	SOC 230	Race and Ethnic Relations	3 SHC

D. Natural Sciences/Mathematics (20 SHC)**I. Natural Sciences** (8 SHC)

Select a TWO-COURSE SEQUENCE, including accompanying lab, from among the biological and physical sciences.

1.	BIO 111	General Biology I	4 SHC
	BIO 112	General Biology II	4 SHC
2.	CHM 151	General Chemistry I	4 SHC
	CHM 152	General Chemistry II	4 SHC
3.	PHY 151	College Physics I	4 SHC
	PHY 152	College Physics II	4 SHC
	PHY 251	General Physics I	4 SHC
	PHY 252	General Physics II	4 SHC

II. Mathematics (6 SHC)

Select at least ONE course in mathematics at the precalculus algebra level or above; the other course may be a higher level mathematics course.

1.	MAT 171	Precalculus Algebra	3 SHC
	MAT 172	Precalculus Trigonometry	3 SHC
2.	MAT 172	Precalculus Trigonometry	3 SHC
	MAT 271	Calculus I	4 SHC
3.	MAT 271	Calculus I	4 SHC
	MAT 272	Calculus II	4 SHC

III. Other Required Natural Science/Mathematics (5-6 SHC)

SELECT FIVE OR SIX ADDITIONAL SEMESTER HOURS COURSES FROM ANY OF THE ABOVE COURSES IN DI OR II THAT HAVE NOT ALREADY BEEN USED OR ANY OF THE FOLLOWING:

AST 111	Descriptive Astronomy	3 SHC
AST 111A	Descriptive Astronomy Lab	1 SHC
BIO 110	Principles of Biology	4 SHC
BIO 130	Introductory Zoology	4 SHC
BIO 140	Environmental Biology	3 SHC
BIO 140A	Environmental Biology Lab	1 SHC
CHM 131	Introduction to Chemistry	3 SHC
CHM 131A	Introduction to Chemistry lab	1 SHC
CHM 132	Organic and Biochemistry	4 SHC
MAT 151	Statistics I	3 SHC
MAT 263	Brief Calculus	3 SHC
MAT 273	Calculus III	4 SHC

OTHER REQUIRED HOURS (21 SHC)

A MINIMUM OF 14 SHC OF COLLEGE TRANSFER COURSES IN MATHEMATICS AND NATURAL SCIENCES IS REQUIRED. Other required hours may be selected from the general education courses that were not used from the above list and the electives that are listed below. NOTE: While general education courses may be used as electives, electives may not be used to fulfill general education requirements.

ACA 111	College Student Success or	1 SHC	HIS 228	History of the South	3 SHC
ACA 122	College Transfer Success (preferred)	1 SHC	HIS 236	North Carolina History	3 SHC
ACC 120	Prin of Financial Accounting	4 SHC	HUM 230	Leadership Development	3 SHC
ACC 121	Prin of Managerial Accounting	4 SHC	JPN 111	Elementary Japanese	3 SHC
ART 121	Two Dimensional Design	3 SHC	JPN 112	Elementary Japanese II	3 SHC
ART 122	Three Dimensional Design	3 SHC	JPN 181	Japanese Lab I	1 SHC
ART 131	Drawing I	3 SHC	JPN 182	Japanese Lab II	1 SHC
ART 132	Drawing II	3 SHC	JOU 110	Intro to Journalism	3 SHC
BIO 163	Basic Anatomy and Physiology	5 SHC	MAT 161	College Algebra	3 SHC
BIO 168	Anatomy and Physiology I	4 SHC	MAT 161A	College Algebra Lab	1 SHC
BIO 169	Anatomy and Physiology II	4 SHC	MAT 171A	Precalculus Algebra Lab	1 SHC
BIO 175	General Microbiology	3 SHC	MAT 172A	Precalculus Trigonometry Lab	1 SHC
BIO 243	Marine Biology	4 SHC	MAT 285	Differential Equations	3 SHC
BIO 250	Genetics	4 SHC	MUS 111	Fundamentals of Music	2 SHC
BIO 275	Microbiology	4 SHC	MUS 131	Chorus I	1 SHC
BIO 280	Biotechnology	3 SHC	MUS 132	Chorus II	1 SHC
BUS 110	Introduction to Business	3 SHC	MUS 151	Class Music I	1 SHC
BUS 115	Business Law I	3 SHC	MUS 152	Class Music II	1 SHC
BUS 137	Principles of Management	3 SHC	MUS 212	American Musical Theatre	3 SHC
CHI 111	Elementary Chinese I	3 SHC	MUS 231	Chorus III	1 SHC
CHI 112	Elementary Chinese II	3 SHC	MUS 232	Chorus IV	1 SHC
CHI 181	Chinese Lab I	1 SCH	MUS 251	Class Music III	1 SHC
CHI 182	Chinese Lab II	1 SCH	MUS 252	Class Music IV	1 SHC
CHM 130	Gen., Org., and Biochemistry	3 SHC	PED 110	Fit and Well for Life	2 SHC
CHM 130A	Gen., Org., and Biochemistry Lab	1 SHC	PED 113	Aerobics I	1 SHC
CHM 251	Organic Chemistry I	4 SHC	PED 117	Weight Training I	1 SHC
CHM 252	Organic Chemistry II	4 SCH	PED 120	Walking for Fitness	1 SHC
CIS 110	Introduction to Computers	3 SHC	PED 121	Walk, Jog, Run	1 SHC
CIS 115	Into. to Prog. and Logic	3 SHC	PED 122	Yoga I	1 SHC
CJC 111	Intro to Criminal Justice	3 SHC	PED 128	Golf-Beginning	1 SHC
CJC 121	Law Enforcement Operations	3 SHC	PED 130	Tennis-Beginning	1 SHC
CJC 141	Corrections	3 SHC	PED 131	Intermediate Tennis	1 SHC
CSC 134	C++ Programming	3 SHC	PED 132	Racquetball-Beginning	1 SHC
CSC 151	Java Programming	3 SHC	PED 139	Bowling-Beginning	1 SHC
DRA 120	Voice for Performance	3 SHC	PED 148	Softball	1 SHC
DRA 130	Acting I	3 SHC	PED 152	Swimming-Beginning	1 SHC
DRA 131	Acting II	3 SHC	POL 130	State and Local Government	3 SHC
DRA 140	Stagecraft I	3 SHC	PSY 263	Educational Psychology	3 SHC
DRA 145	Stage Make-up	2 SHC	REL 110	World Religions	3 SHC
DRA 170	Play Production I	3 SHC	SOC 242	Sociology of Deviance	3 SHC
DRA 171	Play Production II	3 SHC	SPA 181	Spanish Lab 1	1 SHC
DRA 260	Directing	3 SHC	SPA 182	Spanish Lab 2	1 SHC
EDU 144	Child Development I	3 SHC	SPA 281	Spanish Lab 3	1 SHC
EDU 145	Child Development II	3 SHC	SPA 282	Spanish Lab 4	1 SHC
EDU 146	Child Guidance	3 SHC			
EDU 216	Foundations of Education	4 SHC			
EGR 150	Intro to Engineering	2 SHC			
EGR 220	Engineering Statics	3 SHC			
ENG 125	Creative Writing	3 SHC			
ENG 126	Creative Writing II	3 SHC			
ENG 132	Introduction to Drama	3 SHC			
ENG 235	Survey Film as Literature	3 SHC			
ENG 273	African-American Literature	3 SHC			
FRE 181	French Lab 1	1 SHC			
FRE 182	French Lab 2	1 SHC			
FRE 281	French Lab 3	1 SHC			
FRE 282	French Lab 4	1 SHC			
HEA 110	Personal Health/Wellness	3 SHC			
HEA 112	First Aid and CPR	2 SHC			
HIS 116	Current World Problems	3 SHC			
HIS 162	Women and History	3 SHC			
HIS 221	African-American History	3 SHC			
HIS 226	The Civil War	3 SHC			



Course Descriptions

The following abbreviations after certain course descriptions indicate the semester in which those courses are usually offered:

F = Fall **Sp = Spring** **S = Summer**

"On Demand" will indicate courses offered only when there is sufficient demand to justify scheduling the course.

Cl. Lab Clinic/Sem.
Hrs.Hrs. WorkCredit
Exp. Hrs.
Hrs.

ACA - Academic Related

ACA 090 Study Skills 3 0 0 3
Prerequisite: *None* Corequisite: *None*

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. Students scoring into ENG 080, Writing Fundamentals, or RED 080, Introduction to College Reading, must also complete ACA 090, College Study Skills before registering for ENG 111, Expository Writing. (F., Sp., S.)

ACA 111 College Student Success 1 0 0 1
Prerequisite: *None* Corequisite: *None*

This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal-setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

ACA 122 College Transfer 1 0 0 1
Prerequisite: *None* Corequisite: *None*

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* (On Demand)

ACC - Accounting

ACC 120 Prin Of Financial Accounting 3 2 0 4
Prerequisite: *MAT 060 or MAT 061, RED 090, or ENG 095*
Corequisite: *None*

This course introduces business decision-making accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial

information in decision-making and address ethical considerations. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

ACC 121 Prin of Managerial Accounting 3 2 0 4
Prerequisite: *ACC 120* Corequisite: *None*

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

ACC 122 Prin of Financial Acct II 3 0 0 3
Prerequisite: *ACC 120* Corequisite: *None*

This course provides additional instruction in the financial accounting concepts and procedures introduced in ACC 120. Emphasis is placed on the analysis of specific balance sheet accounts, with in-depth instruction of the accounting principles applied to these accounts. Upon completion, students should be able to analyze data, prepare journal entries, and prepare reports in compliance with generally accepted accounting principles. (Sp.)

ACC 129 Individual Income Taxes 2 2 0 3
Prerequisite: *None* Corequisite: *None*

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. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

ACC 130 Business Income Taxes 2 2 0 3
Prerequisite: *ACC 120 and ACC 129* Corequisite: *None*

This course introduces the relevant laws governing business and fiduciary income taxes. Topics include tax law relating to business organizations, electronic research and methodologies, and the use of technology for the preparation of business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various business tax forms. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

ACC 140 Payroll Accounting 1 2 0 2
Prerequisite: *ACC 115 or ACC 120* Corequisite: *None*

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

ACC 150 Acct Software Application 1 2 0 2
 Prerequisite: *ACC 115 or ACC 120* Corequisite: *None*
 This course introduces microcomputer applications related to accounting systems. Topics include general ledger, accounts receivable, accounts payable, inventory, payroll, and correcting, adjusting, and closing entries. Upon completion, students should be able to use a computer accounting package to solve accounting problems. *This course is also available through the Virtual Learning Community (VLC).* (F.)

ACC 220 Intermediate Accounting I 3 2 0 4
 Prerequisite: *ACC 120 (C or better) and ACC 121 (C or better)*
 Corequisite: *None*
 This course is a continuation of the study of accounting principles with in-depth coverage of theoretical concepts and financial statements. Topics include generally accepted accounting principles and an 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. *This course is also available through the Virtual Training Community (VLC).* (F.)

ACC 221 Intermediate Acct II 3 2 0 4
 Prerequisite: *ACC 220* Corequisite: *None*
 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. (Sp.)

ACC 250 Advanced Accounting 3 0 0 3
 Prerequisite: *ACC 220* Corequisite: *None*
 This course is designed to analyze the special accounting issues, which may include business combinations, partnerships, international accounting, estates, and trusts. Emphasis is placed on analyzing transactions and preparing working papers and financial statements. Upon completion, students should be able to solve a wide variety of problems by advanced application of accounting principles and procedures. (Sp.)

ACM - Animal Care and Management

ACM 111 Health Care for Animal 2 2 0 3
 Prerequisite: *None* Corequisite: *None*
 This course introduces the basic techniques of routine health care and emergency medical care of animals. Topics include handling of sick and injured animals, recognition of symptoms, and general health care concerns for animals. Upon completion, students should be able to recognize and discuss health needs and problems of a wide variety of animals. (Sp.)

AGR - Agriculture

AGR 110 Agricultural Economics 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course provides an introduction to basic economic principles in agriculture. Topics include supply and demand, the role of agriculture in the economy, economic systems, and micro- and macroeconomics. Upon completion, students should be able to explain economic systems, interpret supply and demand curves, and complete cost and revenue production schedules. (F., Sp., S.)

AGR 111 Basic Farm Maintenance 1 3 0 2
 Prerequisite: *None* Corequisite: *None*
 This course covers fundamentals of maintenance and repair of farm facilities and equipment. Topics include safe use of hand tools and farm machinery, carpentry, concrete, painting, wiring, welding, plumbing, and calculating costs and materials needed. Upon completion, students should be able to answer theoretical questions on topics covered and assist with maintenance and repair of farm facilities and equipment. (F.)

AGR 121 Biological Pest Mgmt 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course will emphasize the building and maintaining of healthy soil, plant and insect biological cycles as the key to pest and disease management. Course content includes study of major pests and diseases, including structure, life cycle, and favored hosts; and biological and least toxic methods of chemical control. Upon completion, students will be able to identify and recommend methods of prevention and control of selected insects and diseases. (S.)

AGR 131 Market Garden Lab 0 6 0 2
 Prerequisite: *None* Corequisite: *None*
 This course provides familiarization with basic gardening techniques by performing practical hands-on exercises required for sustainable production. Emphasis is placed on irrigation, planting, fertilizing, pest control, equipment operation, harvest and post-harvest, and season extension. Upon completion, students should be able to satisfactorily perform various practices essential to maintaining the sustainable market garden. (S.)

AGR 139 Intro to Sustainable Ag 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course will provide students with a clear perspective on the principles, history and practices of sustainable agriculture in our local and global communities. Students will be introduced to the economic, environmental and social impacts of agriculture. Upon completion, students will be able to identify the principles of sustainable agriculture as they relate to basic production practices. (S., F.)

AGR 140 Agricultural Chemicals 2 2 0 3
 Prerequisite: *None* Corequisite: *None*
 This course covers all aspects of agricultural chemicals. Topics include safety, environmental effects, federal and state laws, pesticide classification, sprayer calibration, and licensing. Upon completion, students should be able to calibrate a sprayer, give proper pesticide recommendations, and demonstrate safe handling of pesticides. (F., Sp., S.)



AGR 150 Ag-O-Metrics 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course introduces basic calculations for agricultural applications. Topics include the metric system, land measurement, feed efficiency, rate of gain, chemical calibration, and payroll. Upon completion, students should be able to perform calculations that pertain to agricultural production. (F., Sp.)

AGR 160 Plant Science 2 2 0 3
 Prerequisite: *None* Corequisite: *None*
 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. (Sp.)

AGR 170 Soil Science 2 2 0 3
 Prerequisite: *None* Corequisite: *None*
 This course covers the basic principles of soil fertilizing. Topics include liming, fertilization, management, and plant nutrients. Upon completion, students should be able to give nutrient and liming recommendations for soils. (F., Sp.)

AGR 210 Agricultural Accounting 1 4 0 3
 Prerequisite: *None* Corequisite: *None*
 This course covers the basic principles and practices of accounting and bookkeeping as they relate to the agricultural industry. Topics include general accounting terminology, data entry practices, and analysis of records for tax purposes. Upon completion, students should be able to complete a basic record book and analyze records for tax purposes. (F.)

AGR 212 Farm Business Management 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course introduces budgeting, farm analysis, production costs, business organizations, and general management principles. Topics include enterprise budgets, partial budgets, whole farm budgets, income analysis, and business organizations. Upon completion, students should be able to prepare and analyze a farm budget. (Sp.)

AGR 213 Ag Law & Finance 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course covers the basic laws and financial aspects affecting agriculture. Topics include environmental laws, labor laws, contractual business operations, assets, liabilities, net worth, and funding sources. Upon completion, students should be able to complete loan application procedures and explain basic laws affecting the agricultural industry. (F.)

AGR 214 Agricultural Marketing 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 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. (Sp.)

AGR 262 Weed ID & Control 2 3 0 3
 Prerequisite: *None* Corequisite: *None*
 This course introduces the annual and perennial weeds of economic importance in the southeast. Topics include the life cycles, flowering habits, identification, and control of various weeds in the southeast. Upon completion, students should be able to identify selected weeds and recommend methods of control. (Sp.)

AGR 265 Organic Crop Prod 2 2 0 3
 Prerequisite: *None* Corequisite: *None*
 This course includes a study of spring organic crop production practices, including vegetables, cut flowers, and culinary and medicinal herbs. Topics include variety selection, production methods, and record keeping procedures for certification. Upon completion, students will be able to demonstrate a knowledge of organic crop production appropriate for the spring season. (Sp.)

AHR - Air Conditioning, Heating, and Refrigeration

AHR 110 Intro to Refrigeration 2 6 0 5
 Prerequisite: *None* Corequisite: *None*
 This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade. (F.)

AHR 111 HVACR Electricity 2 2 0 3
 Prerequisite: *None* Corequisite: *None*
 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. (F.)

AHR 112 Heating Technology 2 4 0 4
 Prerequisite: *None* Corequisite: *None*
 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. (Sp.)

AHR 113 Comfort Cooling 2 4 0 4
 Prerequisite: *None* Corequisite: *None*
 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. (F.)

AHR 114 Heat Pump Technology 2 4 0 4
 Prerequisite: *AHR 110 or AHR 113* Corequisite: *None*
 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. (Sp.)

AHR 130 HVAC Controls 2 2 0 3
 Prerequisite: *AHR 111 or ELC 111* Corequisite: *None*
 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. (Sp.)

AHR 160 Refrigerant Certification 1 0 0 1

Prerequisite: *None* Corequisite: *None*

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. (F.)

AHR 211 Residential System Design 2 2 0 3

Prerequisite: *None* Corequisite: *None*

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. (Sp.)

AHR 245 Chiller Systems 1 3 0 2

Prerequisite: *AHR 110* Corequisite: *None*

This course introduces the fundamentals of liquid chilling equipment. Topics include characteristics of water, principles of water chilling, the chiller, the refrigerant, water and piping circuits, freeze prevention, purging, and equipment flexibility. Upon completion, students should be able to describe the components, controls, and overall operation of liquid chilling equipment and perform basic maintenance tasks. (S.)

AHR 247 Atypical System 1 3 0 2

Prerequisite: *AHR 110* Corequisite: *None*

This course introduces refrigeration systems utilizing non-fluorocarbon based refrigerants. Topics include mechanical compression a.m.moniam systems, a.m.moniam absorption systems, and other absorption type systems. Upon completion, students should be able to demonstrate an understanding of the operation of certain non-fluorocarbon based refrigeration systems. (S.)

ALT - Alternative Energy Technology

ALT 120 Renewable Energy Tech 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course provides an introduction to multiple technologies that allow for the production and conservation of energy from renewable sources. Topics include hydro-electric, wind power, passive and active solar energy, tidal energy, appropriate building techniques, and energy conservation methods. Upon completion, students should be able to demonstrate an understanding of renewable energy production and its impact on humans and their environment. (On Demand)

ALT 220 Photovoltaic Sys Tech 2 3 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces the concepts, tools, techniques, and materials needed to understand systems that convert solar energy into electricity with photovoltaic (pv) technologies. Topics include site analysis for system integration, building codes, and advances in photovoltaic technology. Upon completion, students should be able to demonstrate an understanding of the principles of photovoltaic technology and current applications. (F.)

ALT 240 Wind & Hydro Power 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces concepts, designs, tools, techniques, and material requirements for systems that convert wind and water into usable energy. Topics include the analysis, measurement, and estimation of potential energy of wind and water systems. Upon completion, students should be able to demonstrate an understanding of the technologies associated with converting wind and water into a viable energy source. (On Demand)

ALT 250 Thermal Systems 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces concepts, tools, techniques, and materials used to convert thermal energy into a viable, renewable energy resource. Topics include forced convection, heat flow and exchange, radiation, the various elements of thermal system design, regulations, and system installation and maintenance. Upon completion, students should be able to demonstrate an understanding of geothermal and solar thermal systems and corresponding regulations. (F.)

ANS - Animal Science

ANS 110 Animal Science 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces the livestock industry. Topics include nutrition, reproduction, production practices, diseases, meat processing, and marketing. Upon completion, students should be able to demonstrate a basic understanding of livestock production practices and the economic impact of livestock in North Carolina. (F.)

ANS 115 Animal Feeds & Nutrition 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course covers the fundamentals of animal feeding and nutrition. Topics include nutrient requirements, digestion, feed formulation, and classification. Upon completion, students should be able to demonstrate a knowledge of nutritional requirements and feeding practices of farm animals. (F.)

ANS 120 Beef Production 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course provides an introduction to the beef cattle industry. Topics include reproduction, cattle management, marketing, anatomy and physiology, and pasture management. Upon completion, students should be able to demonstrate a basic understanding of beef cattle production practices and the economic impact of the beef cattle industry in North Carolina. (Sp.)

ANS 130 Poultry Production 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course provides an introduction to the poultry industry. Topics include anatomy and physiology, reproduction, incubation, and husbandry. Upon completion, students should be able to demonstrate a basic understanding of poultry production and the economic impact of the poultry industry in North Carolina. (F.)

ANS 140 Swine Production 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course provides an introduction to the swine industry. Topics include basic skills for breeding, farrowing, nursery, and grower/finisher. Upon completion, students should be able to demonstrate a basic understanding of swine production practices and the economic impact of the swine industry in North Carolina. (F.)

ANS 141 Swine Herd Management	2	0	0	2
Prerequisite: <i>ANS 140</i>	Corequisite: <i>None</i>			
This course is designed to expand topics covered in ANS 140. Emphasis is placed on management techniques as they relate to breeding, farrowing, nursery, and grower/finisher. Upon completion, students should be able to analyze and respond to management and production problems as they occur on the farm. (F.)				
ANS 150 Animal Health Management	3	0	0	3
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
This course introduces animal diseases and health management. Topics include identification, prevention, control, and treatment of diseases. Upon completion, students should be able to recognize disease symptoms, recommend treatments, identify preventive steps, and develop biosecurity procedures. (S.)				
ANS 160 Animal Waste Management	3	0	0	3
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
This course introduces proper animal waste management. Emphasis is placed on waste management practices, environmental laws and issues relating to animal waste, soil and water conservation, and dead animal disposal. Upon completion, students should be able to calculate proper application rates, apply best management practices, and identify methods of animal waste collection, storage, and utilization. (S.)				
ANS 170 Sheep & Goat Production	2	2	0	3
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
This course provides an introduction to sheep and goat production. Topics include reproduction, marketing, and production practices specific to each species. Upon completion, students should be able to demonstrate a basic understanding of sheep and goat production practices and the economic impact of each. (F.)				
ANS 180 Equine Production	3	2	0	4
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
This course provides an introduction to the production of horses. Topics include anatomy and physiology, reproduction, genetics, selection, and basic management practices. Upon completion, students should be able to demonstrate a basic understanding of the production and management of horses. (Sp.)				
ANS 210 Livestock Prod Issues	3	0	0	3
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
This course explores areas associated with livestock production. Emphasis is placed on monthly work schedules; qualities of a successful manager; and recruiting, motivating, and retaining employees. Upon completion, students should be able to prepare a livestock management program, write a resume, complete an interview, and identify ways to improve community relations. (Sp.)				
ANS 213 Animal Reproduction	2	2	0	3
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
This course covers principles of reproductive physiology and their practical farm applications. Emphasis is placed on cattle and swine reproduction. Upon completion, students should be able to recognize reproductive anatomy, describe hormone function, and be able to breed animals naturally and artificially. (Sp.)				
ANS 230 Poultry Management	3	0	0	3
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
This course is designed to expand topics covered in ANS 130. Emphasis is placed on management techniques as they relate to brooding,				

growing, and housing poultry and the environmental needs of various types of poultry. Upon completion, students should be able to analyze and respond to management and production problems as they occur. (Sp.)

ANT - Anthropology

ANT 210 General Anthropology	3	0	0	3
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
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. <i>This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC). (On Demand)</i>				

ARC - Architecture

ARC 111 Intro to Arch Technology	1	6	0	3
Prerequisite: <i>None</i>	Corequisite: <i>None</i>			
This course introduces basic architectural drafting techniques, lettering, use of architectural and engineer scales, and sketching. Topics include orthographic, axonometric, and oblique drawing techniques using architectural plans, elevations, sections, and details; reprographic techniques; and other related topics. Upon completion, students should be able to prepare and print scaled drawings within minimum architectural standards. (F.)				

ART - Art

ART 111 Art Appreciation	3	0	0	3
Prerequisite: <i>RED 090, or ENG 095</i>	Corequisite: <i>None</i>			
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. <i>This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC). (F., Sp.)</i>				
ART 114 Art History Survey I	3	0	0	3
Prerequisite: <i>RED 090, or ENG 095</i>	Corequisite: <i>None</i>			
This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. <i>This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC). (F.)</i>				
ART 115 Art History Survey II	3	0	0	3
Prerequisite: <i>RED 090, or ENG 095</i>	Corequisite: <i>None</i>			
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. This course is also available through the Virtual Learning Community (VLC). (Sp.)*

ART 121 Two Dimensional Design 0 6 0 3
Prerequisite: *None* Corequisite: *None*

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. (F)*

ART 122 Three Dimensional Design 0 6 0 3
Prerequisite: *ART 121 (C or better) or IPO* Corequisite: *None*

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. (Sp.)*

ART 131 Drawing I 0 6 0 3
Prerequisite: *None* Corequisite: *None*

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. (F)*

ART 132 Drawing II 0 6 0 3
Prerequisite: *ART 131 (C or better) or IPO* Corequisite: *None*

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. (Sp.)*

AST - Astronomy

AST 111 Descriptive Astronomy 3 0 0 3
Prerequisite: *MAT 070 or DMA 010 and RED 090 or ENG 095* Corequisite: *AST 111A*

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. (On Demand)*

AST 111A Descriptive Astronomy Lab 0 2 0 1
Prerequisite: *MAT 070 or DMA 010 and RED 090 or ENG 095* Corequisite: *AST 111*

The course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. (On Demand)*

ATR - Automation and Robotics

ATR 280 Robotic Fundamentals 3 2 0 4
Prerequisite: *ELC 131* Corequisite: *None*

This course covers application, programming, and maintenance fundamentals for robotic devices. Emphasis is placed on terminology, problem solving, robotic systems controls, and hands-on projects. Upon completion, students should be able to apply basic concepts in application, programming, and robotic control systems. (Sp.)

AUB - Autobody

AUB 111 Painting & Refinishing I 2 6 0 4
Prerequisite: *None* Corequisite: *None*

This course introduces the proper procedures for using automotive refinishing equipment and materials in surface preparation and application. Topics include federal, state, and local regulations, personal safety, refinishing equipment and materials, surface preparation, masking, application techniques, and other related topics. Upon completion, students should be able to identify and use proper equipment and materials in refinishing following accepted industry standards. (F.)

AUB 112 Painting & Refinishing II 2 6 0 4
Prerequisite: *AUB 111* Corequisite: *None*

This course covers advanced painting techniques and technologies with an emphasis on identifying problems encountered by the refinishing technician. Topics include materials application, color matching, correction of refinishing problems, and other related topics. Upon completion, students should be able to perform spot, panel, and overall refinishing repairs and identify and correct refinish problems. (Sp.)

AUB 114 Special Finishes 1 2 0 2
Prerequisite: *AUB 111* Corequisite: *None*

This course introduces multistage finishes, custom painting, and protective coatings. Topics include base coats, advanced intermediate coats, clear coats, and other related topics. Upon completion, students should be able to identify and apply specialized finishes based on accepted industry standards. (S.)

AUB 121 Non-Structural Damage I 1 4 0 3
Prerequisite: *None* Corequisite: *None*

This course introduces safety, tools, and the basic fundamentals of body repair. Topics include shop safety, damage analysis, tools and equipment, repair techniques, materials selection, materials usage, and other related topics. Upon completion, students should be able to identify and repair minor direct and indirect damage including removal/repairing/ replacing of body panels to accepted standards. (F.)

AUB 122 Non-Structural Damage II 2 6 0 4
 Prerequisite: *None* Corequisite: *None*
 This course covers safety, tools, and advanced body repair. Topics include shop safety, damage analysis, tools and equipment, advanced repair techniques, materials selection, materials usage, movable glass, and other related topics. Upon completion, students should be able to identify and repair or replace direct and indirect damage to accepted standards including movable glass and hardware. (Sp.)

AUB 131 Structural Damage I 2 4 0 4
 Prerequisite: *None* Corequisite: *None*
 This course introduces safety, equipment, structural damage analysis, and damage repairs. Topics include shop safety, design and construction, structural analysis and measurement, equipment, structural glass, repair techniques, and other related topics. Upon completion, students should be able to analyze and perform repairs to a vehicle which has received light/moderate structural damage. (F.)

AUB 132 Structural Damage II 2 6 0 4
 Prerequisite: *AUB 131* Corequisite: *None*
 This course provides an in-depth study of structural damage analysis and repairs to vehicles that have received moderate to heavy structural damage. Topics include shop safety, structural analysis and measurement, equipment, structural glass, advanced repair techniques, structural component replacement and alignment, and other related topics. Upon completion, students should be able to analyze and perform repairs according to industry standards. (Sp.)

AUB 134 Autobody MIG Welding 1 4 0 3
 Prerequisite: *None* Corequisite: *None*
 This course covers the terms and procedures for welding the various metals found in today's autobody repair industry with an emphasis on personal/environmental safety. Topics include safety and precautionary measures, setup/operation of MIG equipment, metal identification methods, types of welds/joints, techniques, inspection methods, and other related topics. Upon completion, students should be able to demonstrate a basic knowledge of welding operations and safety procedures according to industry standards. (F.)

AUB 136 Plastics & Adhesives 1 4 0 3
 Prerequisite: *None* Corequisite: *None*
 This course covers safety, plastic and adhesive identification, and the various repair methods of automotive plastic components. Topics include safety, identification, preparation, material selection, and the various repair procedures including refinishing. Upon completion, students should be able to identify, remove, repair, and/or replace automotive plastic components in accordance with industry standards. (S.)

AUB 150 Automotive Detailing 1 3 0 2
 Prerequisite: *None* Corequisite: *None*
 This course covers the methods and procedures used in automotive detailing facilities. Topics include safety, engine, interior and trunk compartment detailing, buffing/polishing exterior surfaces, and cleaning and reconditioning exterior trim, fabrics, and surfaces. Upon completion, students should be able to improve the overall appearance of a vehicle. (S.)

AUC - Auto Customizing Technology

AUC 112 Auto Custom Fabrication 2 4 0 4
 Prerequisite: *None* Corequisite: *None*
 This course covers modifications of existing vehicle components, as well as fabrication of new vehicle components. Emphasis is placed on basic customizing techniques used on factory original parts, as well as fabrication of custom components using machining processes and customizing techniques. Upon completion, students should be able to modify existing factory components and create custom-fabricated components using auto customizing techniques. (F.)

AUT - Automotive

AUT 110 Intro to Auto Technology 2 2 0 3
 Prerequisite: *None* Corequisite: *None*
 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, identify and use basic tools and shop equipment. (F.)

AUT 114 Safety Emissions 1 2 0 2
 Prerequisite: *None* Corequisite: *None*
 This course covers the laws, procedures, and specifications needed to perform a North Carolina State Safety and Emissions inspection. Topics include brake, steering and suspension, lighting, horn, windshield wiper, tire, mirrors, and emission control devices inspection. Upon completion, students should be able to perform complete and thorough North Carolina State Safety and Emissions inspections. (F.)

AUT 116 Engine Repair 2 3 0 3
 Prerequisite: *None* Corequisite: *None*
 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. (F.)

AUT 116A Engine Repair Lab 0 3 0 1
 Prerequisite: *None* Corequisite: *AUT 116*
 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. (F.)

AUT 141 Suspension & Steering Sys 2 3 0 3Prerequisite: *None*Corequisite: *None*

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. (Sp.)

AUT 141A Susp & Steering Sys Lab 0 3 0 1Prerequisite: *None*Corequisite: *AUT 141*

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. (Sp.)

AUT 151 Brake Systems 2 3 0 3Prerequisite: *None*Corequisite: *None*

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. (Sp.)

AUT 151A Brake Systems Lab 2 3 0 3Prerequisite: *None*Corequisite: *AUT 151*

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. (Sp.)

AUT 161 Basic Auto Electricity 4 3 0 5Prerequisite: *None*Corequisite: *None*

This course covers basic electrical theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of batteries, starters, and alternators. Topics include Ohm's Law, circuit construction, wiring diagrams, circuit testing, and basic troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair basic wiring, battery, starting, charging, and electrical concerns. (F.)

AUT 163 Adv Auto Electricity 2 3 0 3Prerequisite: *AUT 161*Corequisite: *None*

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. (Sp.)

**AUT 171 Auto Climate Control** 2 4 0 4Prerequisite: *None*Corequisite: *None*

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. (S.)

AUT 181 Engine Performance 1 2 3 0 3Prerequisite: *None*Corequisite: *None*

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. (S.)

AUT 183 Engine Performance 2 2 6 0 4Prerequisite: *AUT 181*Corequisite: *None*

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. (F.)

AUT 212 Auto Shop Management 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course covers the principals of management essential to decision-making, communication, authority, and leadership. Topics include shop supervision, shop organization, customer relations, cost effectiveness and work place ethics. Upon completion, students should be able to describe basic automotive shop operation from a management standpoint. (F.)

AUT 221 Auto Transm/Transaxles 2 3 0 3
 Prerequisite: *None* Corequisite: *None*
 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. (Sp.)

AUT 221A Auto Transm/Transaxles Lab 0 3 0 1
 Prerequisite: *None* Corequisite: *AUT 221*
 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. (Sp.)

AUT 231 Man Trains/Axles/DrTrains 2 3 0 3
 Prerequisite: *None* Corequisite: *None*
 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. (F.)

AUT 231A Man Trains/Axles/DrTrains Lab 2 3 0 3
 Prerequisite: *None* Corequisite: *AUT 231*
 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. (F.)

AUT 281 Adv Engine Performance 2 2 0 3
 Prerequisite: *None* Corequisite: *None*
 This course utilizes service information and specialized test equipment to diagnose and repair power train control systems. Topics include computerized ignition, fuel and emission systems, related diagnostic tools and equipment, data communication networks, and service information. Upon completion, students should be able to perform diagnosis and repair. (Sp.)

AUT 283 Adv Auto Electronics 2 2 0 3
 Prerequisite: *AUT 161* Corequisite: *None*
 This course covers advanced electronic systems on automobiles. Topics include microcontrollers, on-board communications, telematics, hybrid systems, navigation, collision avoidance, and electronic accessories. Upon completion, students should be able to diagnose electronic systems using appropriate service information, procedures, and equipment and remove/replace/reprogram controllers, sensors, and actuators. (S.)

AVI - Aviation

AVI 110 Aviation Maint - General 10 15 0 15
 Prerequisite: *None* Corequisite: *None*
 This course introduces general subjects related to all aspects of aircraft maintenance. Topics include mechanic privileges/limitations; math and physics/basic electricity; aircraft drawings; maintenance forms; fluid lines/fittings; weight and balance; corrosion control; and ground

operations. Upon completion, students should be prepared to pass the FAA knowledge, oral, and practical exams for the general portion of the mechanic's certificate with either the airframe or powerplant ratings. (F.)

AVI 120 Airframe Maintenance I 6 18 0 12
 Prerequisite: *AVI 110* Corequisite: *None*
 This course covers airframe structures, systems, and components with an emphasis on the different types of aircraft construction and repair methods. Topics include aircraft non-metallic (composite), sheet metal, and wood structures; welding; covering and finishes (dope and fabric); assembly and rigging; and communication and navigation systems. Students should gain the knowledge and skills in these areas to prepare them for the airframe rating for the FAA mechanic's certificate. (Sp.)

AVI 130 Airframe Maintenance II 6 9 0 9
 Prerequisite: *AVI 110* Corequisite: *None*
 This course deals entirely with airframe systems and components. Topics include aircraft electrical, hydraulic, pneumatic, landing gear, position, warning, and fuel systems. Upon completion of the course, the student should be prepared to pass the applicable portions of the knowledge, oral, and practical tests of the airframe rating for the FAA mechanic's certificate. (S.)

AVI 230 Airframe Maintenance III 4 9 0 7
 Prerequisite: *AVI 110* Corequisite: *None*
 In this final course of the airframe series, the emphasis is on systems and components, culminating with the airframe inspection portion of the course. In addition to the inspection aspects, instrument, cabin environmental control, fire protection, and ice and rain control systems are covered. The student should be prepared to take the applicable portions of the written, oral, and practical examination for the airframe rating on the FAA mechanic's certificate. (F.)

AVI 240 Powerplant Maintenance I 3 9 0 6
 Prerequisite: *AVI 110* Corequisite: *None*
 This first course in the powerplant series covers theoretical and practical aspects of the two major types of aircraft propulsion systems, piston and jet engines. Auxiliary power units are also covered, including their relationship to the systems they operate. Upon completion, the student should be knowledge of aircraft engines to include maintenance and operation at the level required by the FFA to qualify for a powerplant rating on a mechanic's certificate. (F.)

AVI 250 Powerplant Maintenance II 10 15 0 15
 Prerequisite: *AVI 110* Corequisite: *None*
 This course emphasizes engine systems and components. Topics include engine instruments and fire protection, electrical, lubrication, fuel, ignition, starting, and fuel metering systems. Students completing this course should be capable of passing appropriate portions of the FAA knowledge, oral, and practical tests for the powerplant rating. (Sp.)

AVI 260 Powerplant Maintenance III 5 12 0 9
 Prerequisite: *AVI 110* Corequisite: *None*
 This final course in the powerplant series covers engine systems and components; propellers and unducted fans; and induction, airflow, cooling, exhaust, and reverser systems. The course culminates with engine inspections. The student should be prepared to pass the applicable portions of the knowledge, oral, and practical exams for the powerplant rating at the completion of this course. (S.)

BIO - Biology**BIO 106 Intro to Anat/Phys/Micro** 2 2 0 3Prerequisite: *None*Corequisite: *None*

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. (F.)

BIO 110 Principles of Biology 3 3 0 4Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

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 requirements in natural sciences/mathematics.* (F, Sp., S.)

BIO 111 General Biology I 3 3 0 4Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

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 is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

BIO 112 General Biology II 3 3 0 4Prerequisite: *BIO 111*Corequisite: *None*

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 is also available through the Virtual Learning Community (VLC).* (Sp., On Demand)

BIO 130 Introductory Zoology 3 3 0 4Prerequisite: *BIO 110 or BIO 111*Corequisite: *None*

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (On Demand)

BIO 140 Environmental Biology 3 0 0 3Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., On Demand)

BIO 140A Environmental Biology Lab 0 3 0 1Prerequisite: *RED 090 or ENG 095*Corequisite: *BIO 140*

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (F., Sp., On Demand)

BIO 160 Introductory Life Science 2 2 0 3Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

This course introduces scientific and biological concepts. Topics include basic chemistry, cell structure and function, cell division, basic genetic concepts, anatomical terminology, and metric-English measurements and conversions. Upon completion, students should be able to demonstrate an understanding of basic chemistry, cell biology, genetic concepts; anatomical terminology; and metric-English measurements and conversions. (F.)

BIO 161 Intro to Human Biology 3 0 0 3Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

This course provides a basic survey of human biology. Emphasis is placed on the basic structure and function of body systems and the medical terminology used to describe normal and pathological states. Upon completion, students should be able to demonstrate an understanding of normal anatomy and physiology and the appropriate use of medical terminology. (F.)

BIO 163 Basic Anat & Physiology 4 2 0 5Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

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.* (F., On Demand)

BIO 168 Anatomy and Physiology I 3 3 0 4Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion,

students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

BIO 169 Anatomy and Physiology II 3 3 0 4
Prerequisite: *BIO 168* Corequisite: *None*

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. This course is also available through the Virtual Learning Community (VLC).* (Sp., S.)

BIO 175 General Microbiology 2 2 0 3
Prerequisite: *BIO 110 or BIO 111 or BIO 163 or BIO 165 or BIO 168* Corequisite: *None*

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity. Upon completion, students should be able to demonstrate knowledge of microorganisms and the disease process as well as aseptic and sterile techniques. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., On Demand)

BIO 243 Marine Biology 3 3 0 4
Prerequisite: *BIO 110 or BIO 111* Corequisite: *None*

This course covers the physical and biological components of the marine environment. Topics include major habitats, the diversity of organisms, their biology and ecology, marine productivity, and the use of marine resources by humans. Upon completion, students should be able to identify various marine habitats and organisms and to demonstrate a knowledge of their biology and ecology. (F.)

BIO 275 Microbiology 3 3 0 4
Prerequisite: *BIO 110 BIO 111 or BIO 112 or BIO 163 or BIO 165 or BIO 168* Corequisite: *None*

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.* (Sp., On Demand)

BPR - Blueprint Reading

BPR 135 Schematics & Diagrams 2 0 0 2
Prerequisite: *None* Corequisite: *None*

This course introduces schematics and diagrams used in a variety of occupations. Topics include interpretation of wiring diagrams, assembly drawings, exploded views, sectional drawings, and service manuals, specifications, and charts. Upon completion, students should be able to research and locate components and assemblies denoting factory specifications and requirements from service and repair manuals. (F.)

BTC - Biotechnology

BTC 150 Bioethics 3 0 0 3
Prerequisite: *None* Corequisite: *None*

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. (F.)

BUS - Business

BUS 110 Introduction to Business 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

BUS 115 Business Law I 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course introduces the ethics and legal framework of business. Emphasis is placed on contracts, negotiable instruments, Uniform Commercial Code, and the working of the court systems. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

BUS 116 Business Law II 3 0 0 3
Prerequisite: *BUS 115* Corequisite: *None*

This course continues the study of ethics and business law. Emphasis is placed on bailments, sales, risk-bearing, forms of business ownership, and copyrights. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

BUS 135 Principles of Supervision 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the basic responsibilities and duties of the supervisor and his/her relationship to higher-level supervisors, subordinates, and associates. Emphasis is placed on effective utilization of the work force and understanding the role of the supervisor. Upon completion, students should be able to apply supervisory principles in the work place. *This course is also available through the Virtual Learning Community (VLC).* (On Demand)

BUS 137 Principles of Management 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. *This course has been approved to satisfy the Comprehensive articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

BUS 151 People Skills 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the basic concepts of identity and communication in the business setting. Topics include self-concept, values, communication styles, feelings and emotions, roles versus relationships, and basic assertiveness, listening, and conflict resolution. Upon completion, students should be able to distinguish between unhealthy, self-destructive, communication patterns and healthy, non-destructive, positive communication patterns. (F.)

BUS 153 Human Resource Management 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

BUS 225 Business Finance 2 2 0 3Prerequisite: *ACC 120*Corequisite: *None*

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management. This course is also available through the Virtual Learning Community (VLC). (Sp.)

BUS 239 Bus Applications Seminar 1 2 0 2Prerequisite: *ACC 120, BUS 115, BUS 137, MKT 120, and either ECO 151, or ECO 251, or ECO 252*Corequisite: *None*

This course is designed as a capstone course for Business Administration majors. Emphasis is placed on decision making in the areas of management, marketing, production, purchasing, and finance. Upon completion, students should be able to apply the techniques, processes, and vital professional skills needed in the work place. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

BUS 240 Business Ethics 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces contemporary and controversial ethical issues that face the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society. (F., Sp.)

BUS 260 Business Communication 3 0 0 3Prerequisite: *ENG 111*Corequisite: *None*

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. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

BUS 280 Real Small Business 4 0 0 4Prerequisite: *None*Corequisite: *None*

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. (F.)

CHI - Chinese**CHI 111 Elementary Chinese I** 3 0 0 3Prerequisites: *None*Corequisite: *CHI 181*

This course introduces the fundamental elements of the Chinese 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 Chinese and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

CHI 112 Elementary Chinese II 3 0 0 3Prerequisites: *CHI 111*Corequisite: *CHI 182*

This course includes the basic fundamentals of the Chinese language within a cultural context of the Chinese people and its history. 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 Chinese and demonstrate further cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

CHI 181 Chinese Lab I 0 2 0 1Prerequisites: *None*Corequisite: *None*

This course provides an opportunity to enhance acquisition of the fundamental elements of the Chinese language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Chinese and demonstrate cultural awareness. *This course has*

been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. (On Demand)

CHI 182 Chinese Lab II 0 2 0 1

Prerequisites: CHI 181 Corequisite: None

This course provides an opportunity to enhance acquisition of the fundamental elements of the Chinese language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Chinese and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* (On Demand)

CHM - Chemistry

CHM 090 Chemistry Concepts 4 0 0 4

Prerequisite: *None* Corequisite: *None*

This course provides a non-laboratory based introduction to basic concepts of chemistry. Topics include measurements, matter, energy, atomic theory, bonding, molecular structure, nomenclature, balancing equations, stoichiometry, solutions, acids and bases, gases, and basic organic chemistry. Upon completion, students should be able to understand and apply basic chemical concepts necessary for success in college-level science courses. (On Demand)

CHM 121 Foundations of Chemistry 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course is designed for those who have no previous high school chemistry or a grade of C or less in high school chemistry. Topics include matter, structure of the atom, nomenclature, chemical equations, bonding and reactions; mathematical topics include measurements, scientific notation, and stoichiometry. Upon completion, students should be able to demonstrate an understanding of chemical concepts and an ability to solve related problems in subsequent chemistry courses. (On Demand)

CHM 121A Foundations of Chem Lab 0 2 0 1

Prerequisite: *None* Corequisite: *CHM 121*

This course is a laboratory for CHM 121. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 121. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 121. (On Demand)

CHM 130 Gen, Org, & Biochemistry 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course provides a survey of basic facts and principles of general, organic, and biochemistry. Topics include measurement, molecular structure, nuclear chemistry, solutions, acid-base chemistry, gas laws, and the structure, properties, and reactions of major organic and biological groups. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

(F., On Demand)



CHM 130A Gen, Org, & Biochem Lab 0 2 0 1

Prerequisite: *None* Corequisite: *CHM 130*

This course is a laboratory for CHM 130. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 130. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 130. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., On Demand)

CHM 131 Introduction to Chemistry 3 0 0 3

Prerequisite: *None* Corequisite: *None*

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 is also available through the Virtual Learning Community (VLC).* (F., On Demand)

CHM 131A Introduction to Chemistry Lab 0 3 0 1

Prerequisite: *None* Corequisite: *CHM 131*

This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (F., On Demand)

CHM 132 Organic and Biochemistry 3 3 0 4

Prerequisites: *CHM 131 and CHM 131A or CHM 151*

Corequisite: *None*

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. This course is also available through the Virtual Learning Community (VLC).* (Sp.)

CHM 151 General Chemistry I 3 3 0 4
 Prerequisite: *None* Corequisite: *None*
 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.* (F., Sp., S.)

CHM 152 General Chemistry II 3 3 0 4
 Prerequisite: *CHM 151* Corequisite: *None*
 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.* (F., Sp., S.)

CHM 251 Organic Chemistry I 3 3 0 4
 Prerequisite: *CHM 152* Corequisite: *None*
 This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F.)

CHM 252 Organic Chemistry II 3 3 0 4
 Prerequisite: *CHM 251* Corequisite: *None*
 This course provides a continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multi-step synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of the organic concepts as needed to pursue further study in chemistry and related professional fields. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (Sp.)

CIS - Information Systems

CIS 070 Fundamentals of Computing 0 2 0 1
 Prerequisite: *None* Corequisite: *None*
 This course covers fundamental functions and operations of the computer. Topics include identification of components, overview of operating systems, and other basic computer operations. Upon completion, students should be able to operate computers, access files, print documents, and perform basic application operations. (F., Sp.)

CIS 110 Introduction to Computers 2 2 0 3
 Prerequisite: *RED 080, Computer Skills* Corequisite: *None*
Test (78+) or successful completion of CIS 070 or successful completion of CTS 080

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 science/mathematics (Quantitative Option). This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

CIS 115 Intro to Prog & Logic 2 3 0 3
 Prerequisite: *CIS 070 or CTS 080, MAT 060 and DMA 040, or MAT 070 or DMA 010-040* Corequisite: *None*
 This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (Quantitative Option). This course is also available through the Virtual Learning Community (VLC).* (Sp., On Demand)

CJC - Criminal Justice

CJC 100 Basic Law Enforcement Trn 9 30 0 19
 Prerequisite: *None* Corequisite: *None*
 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 the topics and areas required for the state comprehensive certification examination. This is a certificate-level course. (F., Sp.)

CJC 111 Intro to Criminal Justice 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., S.)

CJC 112 Criminology 3 0 0 3
 Prerequisite: *RED 090 or ENG 095* Corequisite: *None*
 This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other

related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

CJC 113 Juvenile Justice 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

CJC 114 Investigative Photography 1 2 0 2
Prerequisite: *None* Corequisite: *None*

This course covers the operation of digital photographic equipment and its application to criminal justice. Topics include the use of digital cameras, storage of digital images, the retrieval of digital images and preparation of digital images as evidence. Upon completion, students should be able to demonstrate and explain the role and use of digital photography, image storage and retrieval in criminal investigations. (F.)

CJC 120 Interviews/Interrogations 1 2 0 2
Prerequisite: *None* Corequisite: *None*

This course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/interrogations. Emphasis is placed on the interview/interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims. (F.)

CJC 121 Law Enforcement Operations 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F.)

CJC 131 Criminal Law 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

CJC 132 Court Procedure & Evidence 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state

and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

CJC 141 Corrections 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F.)

CJC 144 Crime Scene Processing 2 3 0 3
Prerequisite: *None* Corequisite: *None*

This course introduces the theories and practices of crime scene processing and investigating. Topics include legal considerations at the crime scene, processing indoor and outdoor scenes, recording, note taking, collection and preservation of evidence and submission to the crime laboratory. Upon completion, the student should be able to evaluate and search various crime scenes and demonstrate the appropriate techniques. *This course is a unique concentration requirement in the Latent Evidence concentration in the Criminal Justice Technology Program.* (F.)

CJC 146 Trace Evidence 2 3 0 3
Prerequisite: *None* Corequisite: *None*

This course provides a study of trace evidence as it relates to forensic science. Topics include collection, packaging, and preservation of trace evidence from crime scenes such as bombings, fires and other scenes. Upon completion, students should be able to demonstrate the fundamental concepts of trace evidence collection, preservation and submission to the crime laboratory. *This course is a unique concentration requirement in the Latent Evidence concentration in the Criminal Justice Technology Program.* (Sp.)

CJC 160 Terrorism: Underlying Issues 3 0 0 3
Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course identifies the fundamental reasons why a.m.erica is a target for terrorists, covering various domestic/international terrorist groups and ideologies from a historical aspect. Emphasis is placed upon recognition of terrorist crime scene; weapons of mass destruction; chemical, biological, and nuclear terrorism; and planning considerations involving threat assessments. Upon completion, the student should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents. (F.)

CJC 170 Critical Incident Mgt for Public Safety 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course prepares the student to specialize in the direct response, operations, and management of critical incidents. Emphasis is placed upon the theoretical and applied models to understand and manage disasters, terrorism, and school/work place violence. Upon completion,

the student should be able to identify and discuss managerial techniques, legal issues, and response procedures to critical incidents. (F.)

CJC 212 Ethics & Comm Relations 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

CJC 213 Substance Abuse 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course is a study of substance abuse in our society. Topics include the history and classifications of drug abuse and the social, physical, and psychological impact of drug abuse. Upon completion, students should be able to identify various types of drugs, their effects on human behavior and society, and treatment modalities. (F.)

CJC 215 Organization & Administration 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces the components and functions of organization and administration as it applies to the agencies of the criminal justice system. Topics include operations/functions of organizations; recruiting, training, and retention of personnel; funding and budgeting; communications; span of control and discretion; and other related topics. Upon completion, students should be able to identify and discuss the basic components and functions of a criminal justice organization and its administrative operations. (F.)

CJC 221 Investigative Principles 3 2 0 4

Prerequisite: *None* Corequisite: *None*

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation. *This is also available through the Virtual Learning Community (VLC.)* (Sp.)



CJC 225 Crisis Intervention 3 0 0 3

Prerequisite: *RED 090* Corequisite: *None*

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. (F.)

CJC 231 Constitutional Law 3 0 0 3

Prerequisite: *None* Corequisite: *None*

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

CJC 232 Civil Liability 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues. (S.)

CJC 245 Friction Ridge Analysis 2 3 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces the basic elements of fingerprint technology and techniques applicable to the criminal justice field. Topics include the history and meaning of fingerprints, pattern types and classification, filing sequence, searching and referencing. Upon completion, students should be able to discuss and demonstrate the fundamental techniques of basic fingerprint technology. *This course is a unique concentration requirement in the Latent Evidence concentration in the Criminal Justice Technology Program.* (F.)

CJC 246 Adv Friction Ridge Analysis 2 3 0 3

Prerequisite: *CJC 245* Corequisite: *None*

This course introduces the theories and processes of advanced friction ridge analysis. Topics include evaluation of friction ridges, chart preparation, comparative analysis for valued determination rendering proper identification, chemical enhancement and AFIS preparation and usage. Upon completion, students must show an understanding of proper procedures for friction ridge analysis through written testing and practical exercises. *This course is a unique concentration requirement in the Latent Evidence concentration in the Criminal Justice Technology Program.* (F.)

CJC 250 Forensic Biology I 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course covers important biological principles that are applied in the crime laboratory. Topics include forensic toxicology, forensic serology, microscopy, and DNA typing analysis, with an overview of organic and inorganic analysis. Upon completion students should be able to articulate how a crime laboratory process physical evidence submitted by law enforcement agencies. (Sp.)

CJC 255 Issues in Crim Justice App 3 0 0 3

Prerequisite: *CJC 111, CJC 221, and CJC 231*

Corequisite: *None*

This course provides an opportunity to exhibit interpersonal and technical skills required for application of criminal justice concepts in contemporary practical situations. Emphasis is placed on critical thinking and integration of theory and practical skills components. Upon completion, students should be able to demonstrate the knowledge required of any entry-level law enforcement officer. (Sp.)

COE - Cooperative Education**COE 110 World of Work** 1 0 0 1

Prerequisite: *None*

Corequisite: *None*

This course covers basic knowledge necessary for gaining and maintaining employment. Topics include job search skills, work ethic, meeting employer expectations, workplace safety, and human relations. Upon completion, students should be able to successfully make the transition from school to work. (F., Sp., S.)

COE 111 Co-op Work Experience I 0 0 10 1

Prerequisite: *None*

Corequisite: *None*

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 course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

COE 112 Co-op Work Experience I 0 0 20 2

Prerequisite: *None*

Corequisite: *None*

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. (F., Sp., S.)

COE 115 Work Exp Seminar I 1 0 0 1

Prerequisite: *None*

Corequisite: *COE 111 or COE 112 or COE 113 or COE 114*

This course description is available in individual departments. (F., Sp., S.)

COE 121 Co-op Work Experience II 0 0 10 1

Prerequisite: *None*

Corequisite: *None*

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. (F., Sp., S.)

COE 122 Co-op Work Experience II 0 0 20 2

Prerequisite: *None*

Corequisite: *None*

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. (F., Sp., S.)

COE 125 Work Experience Seminar II 1 0 0 1

Prerequisite: *COE 115*

Corequisite: *COE 121*

This course description is available in individual departments. (F., Sp., S.)

COE 131 Co-op Work Experience III 0 0 10 1

Prerequisite: *None*

Corequisite: *None*

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. (F., Sp., S.)

COE 132 Co-op Work Experience III 0 0 20 2

Prerequisite: *None*

Corequisite: *None*

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. (F., Sp., S.)

COE 211 Co-op Work Experience IV 0 0 10 1

Prerequisite: *None*

Corequisite: *None*

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. (F., Sp., S.)

COE 221 Co-op Work Experience V 0 0 10 1

Prerequisite: *None*

Corequisite: *None*

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. (F., Sp., S.)

COE 231 Co-op Work Experience VI 0 0 10 1

Prerequisite: *None*

Corequisite: *None*

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. (F., Sp., S.)

COM - Communication**COM 110 Introduction to Communication** 3 0 0 3

Prerequisite: *ENG 111*

Corequisite: *None*

This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal group, public, intercultural, and mass communication situations. Upon completion, students should

be able to explain and illustrate the forms and purposes of human communication in a variety of contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts (substitute). This course is also available through the Virtual Learning Community (VLC).* (On Demand)

COM 120 Intro Interpersonal Com 3 0 0 3
Prerequisite: *ENG 111* Corequisite: *None*

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. (On Demand)

COM 140 Intro Intercultural Com 3 0 0 3
Prerequisite: *ENG 111* Corequisite: *None*

This course introduces techniques of cultural research, definitions, functions, characteristics, and impacts of cultural differences in public address. Emphasis is placed on how diverse backgrounds influence the communication act and how cultural perceptions and experiences determine how one sends and receives messages. Upon completion, students should be able to demonstrate an understanding of the principles and skills needed to become effective in communicating outside one's primary culture. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts (Substitute). (On Demand)

COM 231 Public Speaking 3 0 0 3
Prerequisite: *ENG 111* Corequisite: *None*

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts (substitute). This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

COS - Cosmetology

COS 111 Cosmetology Concepts I 4 0 0 4
Prerequisite: *None* Corequisite: *COS 112*

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting. (F., Sp.)

COS 112 Salon I 0 24 0 8
Prerequisite: *None* Corequisite: *COS 111*

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. (F., Sp.)

COS 113 Cosmetology Concepts II 4 0 0 4
Prerequisite: *None* Corequisite: *COS 114*

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting. (F., Sp., S.)

COS 114 Salon II 0 24 0 8
Prerequisite: *None* Corequisite: *COS 113*

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. (F., Sp., S.)

COS 115 Cosmetology Concepts III 4 0 0 4
Prerequisite: *None* Corequisite: *COS 116*

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting. (F., Sp., S.)

COS 116 Salon III 0 12 0 4
Prerequisite: *None* Corequisite: *COS 115*

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. (F., Sp., S.)

COS 117 Cosmetology Concepts IV 2 0 0 2
Prerequisite: *None* Corequisite: *COS 118*

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements. (F., Sp., S.)

COS 118 Salon IV 0 21 0 7
Prerequisite: *None* Corequisite: *COS 117*

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. (F., Sp., S.)

COS 250 Computerized Salon Ops 1 0 0 1Prerequisite: *None*Corequisite: *None*

This course introduces computer and salon software. Emphasis is placed on various computer and salon software applications. Upon completion, students should be able to utilize computer skills and software applications in the salon setting. (On Demand)

CSC - Computer Science**CSC 151 JAVA Programming** 2 3 0 3Prerequisite: *CIS 070, or CTS 080, MAT 070 or MAT 060 and DMA 040, 050 or DMA 010-050, RED 080*Corequisite: *None*

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on even-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 premajor and/or elective course requirement.* (On Demand)

CTS - Computer Information Technology**CTS 080 Computing Fundamentals** 2 3 0 3Prerequisite: *Computer Skills Test (78+)* Corequisite: *None or successful completion of CIS 070 or CTS 080*

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. (F., Sp.)

CTS 118 IS Professional Comm 2 0 0 2Prerequisite: *None*Corequisite: *None*

This course prepares the information systems professional to communicate with corporate personnel from management to end-users. Topics include information systems cost justification tools, awareness of personal hierarchy of needs, addressing these needs, and discussing technical issues with non-technical personnel. Upon completion, students should be able to communicate information systems issues to technical and non-technical personnel. (Sp.)

CTS 120 Hardware/Software Support 2 3 0 3Prerequisite: *CIS 110 or CIS 111*Corequisite: *None*or *CIS 115*

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. (Sp.)

CTS 130 Spreadsheet 2 2 0 3Prerequisite: *CIS 110 or CIS 111*Corequisite: *None*or *OST 137 and MAT 070 or MAT 060 and DMA 040, 050 or DMA 010-050*

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. (Sp.)

CTS 230 Advanced Spreadsheet 2 2 0 3Prerequisite: *CTS 130*Corequisite: *None*

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. (F.)

CTS 285 Systems Analysis & Design 3 0 0 3Prerequisite: *CIS 115*Corequisite: *None*

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. (F.)

CTS 289 System Support Project 1 4 0 3Prerequisite: *CTS 285 and DBA 115*Corequisite: *None*

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. (Sp.)

DBA - Database Management**DBA 110 Database Concepts** 2 3 0 3Prerequisite: *CIS 110 or CIS 111 and MAT 070 or MAT 060 and DMA 040, 050 or DMA 010-050*Corequisite: *None*

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms. (Sp.)

DBA 115 Database Applications 2 2 0 3Prerequisite: *DBA 110*Corequisite: *None*

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. (F.)

DDF - Design Drafting**DDF 211 Design Process I** 1 6 0 4Prerequisite: *DFT 112 and DFT 152*Corequisite: *None*

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. (S.)

DDF 212 Design Process II 1 6 0 4

Prerequisite: *DDF 211* Corequisite: *None*

This course stresses the integration of various design practices. Emphasis is placed on the creation of an original design. Upon completion, students should be able to apply engineering graphics and design procedures to a design project. (F.)

DDF 213 Design Process III 1 6 0 4

Prerequisite: *DDF 212* Corequisite: *None*

This course provides an opportunity to produce a complete design project. Topics include materials, production means, analysis, documentation, calculations, and specifications. Upon completion, students should be able to produce a completed design project. (Sp.)

DDF 214 Tool Design 2 4 0 4

Prerequisite: *DFT 112, DFT 152* Corequisite: *None*

This course introduces the principles of tool design. Topics including gaging, die work, and cost analysis using available catalogs and studies using manufacturing processes. Upon completion, students should be able to use catalogs to identify vendors and prepare working drawings for tooling. (Sp.)

DDT- Developmental Disabilities

DDT 110 Developmental Disabilities 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course identifies the characteristics and causes of various disabilities. Topics include history of service provision, human rights, legislation and litigation, advocacy, and accessing support services. Upon completion, students should be able to demonstrate an understanding of current and historical developmental disability definitions and support systems used throughout the life span. (Sp.)

DEN - Dental

DEN 100 Basic Orofacial Anatomy 2 0 0 2

Prerequisite: *None* Corequisite: *None*

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. (F.)

DEN 101 Preclinical Procedures 4 6 0 7

Prerequisite: *None* Corequisite: *DEN 100, DEN 111, DEN 102*

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. (F.)

DEN 102 Dental Materials 3 4 0 5

Prerequisite: *None* Corequisite: *None*

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. (F.)

DEN 103 Dental Sciences 2 0 0 2

Prerequisite: *None* Corequisite: *DEN 106*

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. (Sp.)

DEN 104 Dental Health Education 2 2 0 3

Prerequisite: *None* Corequisite: *None*

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. (Sp.)

DEN 105 Practice Management 2 0 0 2

Prerequisite: *None* Corequisite: *DEN 106*

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. (Sp.)

DEN 106 Clinical Practice I 1 0 12 5

Prerequisite: *BIO 106, DEN 101 and DEN 111*

Corequisite: *DEN 103, DEN 104, DEN 105, and DEN 112*

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. (Sp.)

DEN 107 Clinical Practice II 1 0 12 5

Prerequisite: *DEN 106* Corequisite: *None*

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. (S.)

DEN 110 Orofacial Anatomy 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces the structures of the head, neck, and oral cavity. Topics include tooth morphology, head and neck anatomy, histology, and embryology. Upon completion, students should be able to relate the identification of normal structures and development to the practice of dental assisting and dental hygiene. (F.)

DEN 111 Infection/Hazard Control 2 0 0 2

Prerequisite: *None* Corequisite: *None*

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. (F.)

DEN 112 Dental Radiography 2 3 0 3

Prerequisite: *None*

Corequisite: *DEN 106, DEN 100 or DEN 110 and DEN 111*

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. (F., Sp.)

DEN 120 Dental Hyg Preclinic Lec 2 0 0 2

Prerequisite: *None*

Corequisite: *DEN 121*

This course introduces preoperative and clinical dental hygiene concepts. Emphasis is placed on the assessment phase of patient care as well as the theory of basic dental hygiene instrumentation. Upon completion, students should be able to collect and evaluate patient data at a basic level and demonstrate knowledge of dental hygiene instrumentation. (F.)

DEN 121 Dental Hygiene Precl Lab 0 6 0 2

Prerequisite: *None*

Corequisite: *DEN 110, DEN 111, DEN 120*

This course provides the opportunity to perform clinical dental hygiene procedures discussed in DEN 120. Emphasis is placed on clinical skills in patient assessment and instrumentation techniques. Upon completion, students should be able to demonstrate the ability to perform specific preclinical procedures. (F.)

DEN 123 Nutrition/Dental Health 2 0 0 2

Prerequisite: *CHM 130, CHM 130A*

Corequisite: *DEN 131*

This course introduces basic principles of nutrition with emphasis on nutritional requirements and their application to individual patient needs. Topics include the study of the food pyramid, nutrient functions, Recommended Daily Allowances, and related psychological principles. Upon completion, students should be able to recommend and counsel individuals on their food intake as related to their dental health. (Sp.)

DEN 124 Periodontology 2 0 0 2

Prerequisite: *DEN 110*

Corequisite: *None*

This course provides an in-depth study of the periodontium, periodontal pathology, periodontal monitoring, and the principles of periodontal therapy. Topics include periodontal anatomy and a study of the etiology, classification, and treatment modalities of periodontal diseases. Upon completion, students should be able to describe, compare, and contrast techniques involved in periodontal/maintenance therapy, as well as patient care management. (Sp.)

DEN 130 Dental Hygiene Theory I 2 0 0 2

Prerequisite: *DEN 120* Corequisite: *DEN 124, DEN 131, DEN 223*

This course is a continuation of the didactic dental hygiene concepts necessary for providing an oral prophylaxis. Topics include deposits/removal, instrument sharpening, patient education, fluorides, planning for dental hygiene treatment, charting, and clinical records and procedures. Upon completion, students should be able to demonstrate knowledge needed to complete a thorough oral prophylaxis. (Sp.)

DEN 131 Dental Hygiene Clinic I 0 0 9 3

Prerequisite: *DEN 121*

Corequisite: *DEN 123, DEN 124, DEN 130, DEN 223*

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of the recall patients with gingivitis or light deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment. (Sp.)

DEN 140 Dental Hygiene Theory II 1 0 0 1

Prerequisite: *DEN 130*

Corequisite: *DEN 141*

This course provides a continuation of the development, theory, and practice of patient care. Topics include modification of treatment for special needs patients, advanced radiographic interpretation, and ergonomics. Upon completion, students should be able to differentiate necessary treatment modifications, effective ergonomic principles, and radiographic abnormalities. (S.)

DEN 141 Dental Hygiene Clinic II 0 0 6 2

Prerequisite: *DEN 131*

Corequisite: *DEN 140*

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of patients with early periodontal disease and subgingival deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment. (S.)

DEN 220 Dental Hygiene Theory III 2 0 0 2

Prerequisite: *DEN 140*

Corequisite: *DEN 221*

This course provides a continuation in developing the theories and practices of patient care. Topics include periodontal debridement, pain control, subgingival irrigation, air polishing, and case presentations. Upon completion, students should be able to demonstrate knowledge of methods of treatment and management of periodontally compromised patients. (F.)

DEN 221 Dental Hygiene Clinic III 0 0 12 4

Prerequisite: *DEN 141*

Corequisite: *DEN 220, DEN 222, DEN 224*

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on treatment of patients with moderate to advanced periodontal involvement and moderate deposits. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment. (F.)

DEN 222 General & Oral Pathology 2 0 0 2

Prerequisite: *BIO 168 and BIO 169*

Corequisite: *None*

This course provides a general knowledge of oral pathological manifestations associated with selected systemic and oral diseases. Topics include developmental and degenerative diseases, selected microbial diseases, specific and nonspecific immune and inflammatory responses with emphasis on recognizing abnormalities. Upon completion, students should be able to differentiate between normal and abnormal tissues and refer unusual findings to the dentist for diagnosis. (F.)

DEN 223 Dental Pharmacology 2 0 0 2

Prerequisite: *CHM 130, CHM 130A*

Corequisite: *BIO 168*

This course provides basic drug terminology, general principles of drug actions, dosages, routes of administration, adverse reactions, and basic principles of anesthesiology. Emphasis is placed on knowledge of drugs in overall understanding of patient histories and health status. Upon

completion, students should be able to recognize that each patient's general health or drug usage may require modification of the treatment procedures. (Sp.)

DEN 224 Materials and Procedures 1 3 0 2

Prerequisite: *DEN 111* Corequisite: *None*

This course introduces the physical properties of materials and related procedures used in dentistry. Topics include restorative and preventive materials, fabrication of casts and appliances, and chairside functions of the dental hygienist. Upon completion, students should be able to demonstrate proficiency in the laboratory and/or clinical application of routinely used dental materials and chairside functions. (F.)

DEN 230 Dental Hygiene Theory IV 1 0 0 1

Prerequisite: *DEN 220* Corequisite: *DEN 231*

This course provides an opportunity to increase knowledge of the profession. Emphasis is placed on dental specialties and completion of a case presentation. Upon completion, students should be able to demonstrate knowledge of various disciplines of dentistry and principles of case presentations. (Sp.)

DEN 231 Dental Hygiene Clinic IV 0 0 12 4

Prerequisite: *DEN 221* Corequisite: *DEN 230*

This course continues skill development in providing an oral prophylaxis. Emphasis is placed on periodontal maintenance and on treating patients with moderate to advanced/refractory periodontal disease. Upon completion, students should be able to assess these patients' needs and complete the necessary dental hygiene treatment. (Sp.)

DEN 232 Community Dental Health 2 0 3 3

Prerequisite: *None* Corequisite: *DEN 231*

This course provides a study of the principles and methods used in assessing, planning, implementing, and evaluating community dental health programs. Topics include epidemiology, research methodology, biostatistics, preventive dental care, dental health education, program planning, and financing and utilization of dental services. Upon completion, students should be able to assess, plan, implement, and evaluate a community dental health program. (Sp.)

DEN 233 Professional Development 2 0 0 2

Prerequisite: *None* Corequisite: *None*

This course includes professional development, ethics, and jurisprudence with applications to practice management. Topics include conflict management, state laws, resumes, interviews, and legal liabilities as health care professionals. Upon completion, students should be able to demonstrate the ability to practice dental hygiene within established ethical standards and state laws. (Sp.)

DFT - Drafting

DFT 111 Technical Drafting I 1 3 0 2

Prerequisite: *None* Corequisite: *None*

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. (F., Sp.)

DFT 112 Technical Drafting II 1 3 0 2

Prerequisite: *DFT 111 and DFT 151* Corequisite: *None*

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. (Sp.)

DFT 119 Basic CAD 1 2 0 2

Prerequisite: *None* Corequisite: *None*

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. (Sp.)

DFT 151 CAD I 2 3 0 3

Prerequisite: *None* Corequisite: *None*

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. (F., Sp.)

DFT 152 CAD II 2 3 0 3

Prerequisite: *DFT 151* Corequisite: *None*

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. (Sp.)

DMA - Developmental Mathematics

DMA 010 Operations With Integers.75 .50 0 1

Prerequisite: *None* Corequisite: *None*

This course provides a conceptual study of integers and integer operations. Topics include integers, absolute value, exponents, square roots, perimeter and area of basic geometric figures, Pythagorean theorem, and use of the correct order of operations. Upon completion, students should be able to demonstrate an understanding of pertinent concepts and principles and apply this knowledge in the evaluation of expressions. (F., Sp., S.)

DMA 020 Fractions and Decimals 0.75 0.50 0 1

Prerequisite: *DMA-010* Corequisite: *None*

This course provides a conceptual study of the relationship between fractions and decimals and covers related problems. Topics include application of operations and solving contextual application problems, including determining the circumference and area of circles with the concept of pi. Upon completion, students should be able to demonstrate an understanding of the connections between fractions and decimals. (F., Sp., S.)

DMA 030 Propor/Ratio/Rate/Percent 0.75 0.50 0 1

Prerequisite: *DMA-010 and DMA-020* Corequisite: *None*

This course provides a conceptual study of the problems that are represented by rates, ratios, percent, and proportions. Topics include rates, ratios, percent, proportion, conversion of English and metric units, and applications of the geometry of similar triangles. Upon completion, students should be able to use their understanding to solve conceptual application problems. (F., Sp., S.)

DMA 040 Express/Lin Equat/Inequal 0.75 0.50 0 1
Prerequisite: *DMA 010, DMA 020 and DMA 030 or MAT-060* Corequisite: *None*

This course provides a conceptual study of problems involving linear expressions, equations, and inequalities. Emphasis is placed on solving contextual application problems. Upon completion, students should be able to distinguish between simplifying expressions and solving equations and apply this knowledge to problems involving linear expressions, equations, and inequalities. (F., Sp., S.)

DMA 050 Graphs/Equations of Lines 0.75 0.50 0 1
Prerequisite: *DMA 010, DMA 040 or DMA 040 and MAT 060* Corequisite: *None*

This course provides a conceptual study of problems involving graphic and algebraic representations of lines. Topics include slope, equations of lines, interpretation of basic graphs, and linear modeling. Upon completion, students should be able to solve contextual application problems and represent real-world situations as linear equations in two variables. (F., Sp., S.)

DMA 060 Polynomial/Quadratic Appl 0.75 0.50 0 1
Prerequisite: *DMA 010, DMA 050 or DMA-040, DMA-050, and MAT-060 or MAT-060 and MAT-070* Corequisite: *None*

This course provides a conceptual study of problems involving graphic and algebraic representations of quadratics. Topics include basic polynomial operations, factoring polynomials, and solving polynomial equations by means of factoring. Upon completion, students should be able to find algebraic solutions to contextual problems with quadratic applications. (F., Sp., S.)

DMA 070 Rational Express/Equation Class 0.75 0.50 0 1
Prerequisite: *DMA 010, DMA 060 or DMA 040, DMA 060, and MAT 060 or DMA 060, MAT 060, and MAT 070 or DMA 010, DMA 030, DMA 060, and MAT-070* Corequisite: *None*

This course provides a conceptual study of problems involving graphic and algebraic representations of rational equations. Topics include simplifying and performing operations with rational expressions and equations, understanding the domain, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with rational applications. (F., Sp., S.)

DMA 080 Radical Express/Equations 0.75 0.50 0 1
Prerequisite: *DMA 010, DMA 070 or DMA 060, DMA 070, MAT 060, and MAT 070 or DMA 040, DMA 070, and MAT-060 or DMA 010, DMA 030, DMA 060, DMA 070, and MAT 070* Corequisite: *None*

This course provides a conceptual study of the manipulation of radicals and the application of radical equations to real-world problems. Topics include simplifying and performing operations with radical expressions and rational exponents, solving equations, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with radical applications. (F., Sp., S.)

DRA - Drama/Theatre

DRA 111 Theatre Appreciation 3 0 0 3
Prerequisite: *ENG 095 or RED 090* Corequisite: *None*

This course provides a study of the art, craft, and business of the theatre. Emphasis is placed on the audience's appreciation of the work of the playwright, director, actor, designer, producer, and critic. Upon completion, students should be able to demonstrate a vocabulary of theatre terms and to recognize the contributions of various theatre artists. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (F., Sp.)

DRA 120 Voice for Performance 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course provides guided practice in the proper production of speech for the theatre. Emphasis is placed on improving speech, including breathing, articulation, pronunciation, and other vocal variables. Upon completion, students should be able to demonstrate effective theatrical speech. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F. - Odd Year)

DRA 126 Storytelling 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course introduce the art of storytelling and the oral traditions of folk literature. Topics include the history of storytelling, its value and purpose, techniques of the storyteller, and methods of collecting verbal art. Upon completion, students should be able to present and discuss critically stories form the world's repertory of traditional lore. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (Sp.)

DRA 130 Acting I 0 6 0 3
Prerequisite: *None* Corequisite: *None*

This course provides an applied study of the actor's craft. Topics include role analysis, training the voice, and body concentration, discipline, and self-evaluation. Upon completion, students should be able to explore their creativity in an acting ensemble. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (Sp.)

DRA 131 Acting II 0 6 0 3
Prerequisite: *DRA 130* Corequisite: *None*

This course provides additional hands-on practice in the actor's craft. Emphasis is placed on further analysis, characterization, growth, and training for acting competence. Upon completion, students should be able to explore their creativity in an acting ensemble. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

DRA 140 Stagecraft I 0 6 0 3
Prerequisite: *None* Corequisite: *None*

This course introduces the theory and basic construction of stage scenery and properties. Topics include stage carpentry, scene painting, stage electrics, properties, and backstage organization. Upon completion, students should be able to pursue vocational and vocational roles in technical theatre. *This course has been approved to satisfy*

the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. (On Demand)

DRA 145 Stage Make-up 1 2 0 2

Prerequisite: *None* Corequisite: *None*

This course covers the research, design, selection of materials, and application of stage make-up, prosthetics, wigs, and hairpieces. Emphasis is placed on the development of techniques, style, and presentation of the finished make-up. Upon completion, students should be able to create and apply make-up, prosthetics, and hairpieces. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

DRA 170 Play Production I 0 9 0 3

Prerequisite: *None* Corequisite: *None*

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

DRA 171 Play Production II 0 9 0 3

Prerequisite: *DRA 170* Corequisite: *None*

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

DRA 211 Theatre History I 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course covers the development of theatre from its origin to the closing of the British theatre in 1642. The history, aesthetics, and representative dramatic literature of the period. Upon completion, students should be able to trace the evolution of theatre and recognize the styles and types of world drama. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (F.)

DRA 260 Directing 0 6 0 3

Prerequisite: *DRA 130* Corequisite: *DRA 140*

This course provides an analysis and application of the techniques of theatrical directing. Topics include script selection, analysis, casting, rehearsal planning, blocking, stage business, tempo, and technical considerations. Upon completion, students should be able to plan, execute, and critically discuss a student-directed production. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (Sp.)

ECO - Economics

ECO 251 Prin of Microeconomics 3 0 0 3

Prerequisite: *ENG 090 and RED 090 or ENG 095 and MAT 060 or DMA 010-030* Corequisite: *None*

This course introduces economic analysis of individual, business, and industry in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

ECO 252 Prin of Macroeconomics 3 0 0 3

Prerequisite: *ENG 090 and RED 090 or ENG 095 and MAT 060 or DMA 010-030* Corequisite: *None*

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

EDU - Education

EDU 118 Princ & Prac of Inst Asst 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *None*

This course covers the instructional assistant'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 role of the instructional assistant, demonstrate positive communication skills, and discuss educational philosophy. (F.)

EDU 119 Intro to Early Child Educ 4 0 0 4

Prerequisite: *None* Corequisite: *None*

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for all children. Topics include historical foundations, program types, career options, professionalism and creating inclusive environments and curriculum responsive to the needs of all children and families. Upon completion, students should be able to design career plans and develop schedules, environments and activity plans appropriate for all children. *This course is also available through the Virtual Learning Community (VLC).* (F.)

EDU 131 Child, Family, & Commun 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *None*

This course covers the development of partnerships between culturally and linguistically diverse families, children, schools and communities. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative

relationships between diverse families, programs/schools, and community agencies/resources. Upon completion, students should be able to explain appropriate relationships between families, educators, and professionals that enhance development and educational experiences of all children. *This course is also available through the Virtual Learning Community (VLC).* (F.)

EDU 144 Child Development I 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *None*

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 has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F.)

EDU 145 Child Development II 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *None*

This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

EDU 146 Child Guidance 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *None*

This course introduces principles and practical techniques including the design of learning environments for providing developmentally appropriate guidance for all children, including those at risk. Emphasis is placed on observation skills, cultural influences, underlying causes of behavior, appropriate expectations, development of self control and the role of communication and guidance. Upon completion, students should be able to demonstrate direct/indirect strategies for preventing problem behaviors, teaching appropriate/acceptable behaviors, negotiation, setting limits and recognizing at risk behaviors. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (S.)

EDU 151 Creative Activities 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *EDU151A*

This course covers planning, creation and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated, meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and dramatics for all children. Upon completion, students should be able to create, adapt, implement and evaluate developmentally supportive learning materials, experiences and

environments. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

EDU 151A Creative Activities 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *EDU 151*

This course provides a laboratory component to complement EDU 151. Emphasis is placed on practical experiences that enhance concepts introduced in the classroom. Upon completion, students should be able to demonstrate a practical understanding of the development and implementation of appropriate creative activities. (Sp.)

EDU 153 Health, Safety & Nutrit 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *None*

This course covers promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations. Upon completion, students should be able to demonstrate knowledge of health, safety, and nutritional needs, safe learning environments, and adhere to state regulations. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

EDU 162 Observ & Assess in ECE 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *None*

This course introduces the research, benefits, goals, and ethical considerations associated with observation and assessment in Early Childhood environments. Emphasis is placed on the implementation of multiple observation/assessment strategies including anecdotal records, event samples, rating scales, and portfolios to create appropriate learning experiences. Upon completion, students should be able to practice responsible assessment and use assessments to enhance programming and collaboration for children and families. (F.)

EDU 163 Classroom Mgt & Instruct 3 0 0 3

Prerequisite: *ENG 080 and RED 080* Corequisite: *None*

This course covers management and instructional techniques with school-age populations. Topics include classroom management and organization, teaching strategies, individual student differences and learning styles, and developmentally appropriate classroom guidance techniques. Upon completion, students should be able to utilize developmentally appropriate behavior management and instructional strategies that enhance the teaching/learning process and promote students' academic success. (Sp.)

EDU 184 Early Child Intro Pract 1 3 0 2

Prerequisite: *EDU 119 and ENG 080 and RED 080* Corequisite: *None*

This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children and assisting in the implementation of developmentally appropriate activities/environments for all children; and modeling reflective/professional practices. Upon completion, students should be able to demonstrate developmentally appropriate interactions with children and ethical/professional behaviors as indicated by assignments and onsite faculty visits. (Sp.)

EDU 216 Foundations of Education 4 0 0 4

Prerequisite: *ENG 090 and RED 090* Corequisite: *None or ENG 095*

This course introduces the American educational system and the teaching profession. Topics include historical and philosophical foundations of education, contemporary educational, structural, legal, and financial issues, and experiences in public school classrooms. Upon completion, students should be able to relate classroom observations to the roles of teachers and schools and the process of teacher education. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement at select institutions only. *This course is also available through the Virtual Learning Community (VLC).* (On Demand)

EDU 221 Children with Exceptional 3 0 0 3

Prerequisite: *EDU 144, EDU 145 and ENG 090 and RED 090 or ENG 095* Corequisite: *None*

This course introduces children with exceptionalities, their families, support services, inclusive/diverse settings, and educational/family plans based on the foundations of child development. Emphasis is placed on the characteristics of exceptionalities, observation and assessment of children, strategies for adapting the learning environment, and identification of community resources. Upon completion, students should be able to recognize diverse abilities, describe the referral process, and depict collaboration with families/professionals to plan/implement, and promote best practice. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement at select institutions only. This course is also available through the Virtual Learning Community (VLC).* (Sp.)

EDU 222 Learn w/ Behav Disord 3 0 0 3

Prerequisite: *EDU 144, EDU 145 and ENG 090 and RED 090 or ENG 095* Corequisite: *None*

This course provides a comprehensive study of learners with behavioral disorders encompassing characteristics, assessments, placement alternatives, inclusion and family interventions. Topics include legislation, appropriate management interventions, and placement options for children with behavior disorders. Upon completion, students should be able to identify, develop, and utilize positive behavior support systems. Class Lab Credit *Combined Course Library September 23, 2008* EDU - 22 (On Demand)

**EDU 223 Specific Learning Disab** 3 0 0 3

Prerequisite: *EDU 144, EDU 145 and ENG 090 and RED 090 or ENG 095* Corequisite: *None*

This course provides a comprehensive study of characteristics, alternative assessments, teaching strategies, placement options, inclusion, and family intervention for children with specific learning disabilities. Topics include causes, assessment instruments, learning strategies, and collaborative/inclusion methods for children with specific learning disabilities. Upon completion, students should be able to assist in identifying, assessing, and providing educational interventions for children with specific learning disabilities and their families. (On Demand)

EDU 234 Infants, Toddlers, and Twos 3 0 0 3

Prerequisite: *ENG 090 and RED 090* Corequisite: *None or ENG 095*

This course covers the unique needs and rapid changes that occur in the first three years of life and the inter-related factors that influence development. Emphasis is placed on recognizing and supporting developmental milestones through purposeful strategies, responsive care routines and identifying elements of quality, inclusive early care and education. Upon completion, students should be able to demonstrate respectful relationships that provide a foundation for healthy infant/toddler/twos development, plan/select activities/materials, and partner with diverse families. (On Demand)

EDU 235 School-Age Development and Program 3 0 0 3

Prerequisite: *ENG 090 and RED 090* Corequisite: *None or ENG 095*

This course includes developmentally appropriate practices in group settings for school-age children. Emphasis is placed on principles of development, environmental planning, and positive guidance techniques. Upon completion, students should be able to discuss developmental principles for all children ages five to twelve and plan and implement developmentally-appropriate activities. (On Demand)

EDU 247 Sensory & Physical Disab 3 0 0 3

Prerequisite: *EDU 144, EDU 145 and ENG 090 and RED 090 or ENG 095* Corequisite: *None*

This course covers characteristics, intervention strategies, assistive technologies, and inclusive practices for children with sensory and physical disabilities. Topics include inclusive placement options, utilization of support services, other health impairments and family involvement for children with sensory and physical disabilities. Upon completion, students should be able to identify and utilize intervention strategies and service delivery options for those specific disabilities. (On Demand)

EDU 248 Developmental Delays 3 0 0 3

Prerequisite: *ENG 090 and RED 090* Corequisite: *None or ENG 095, EDU 144 and EDU 145*

This course covers the causes and assessment of developmental delays and individualized instruction and curriculum for children with developmental delays. Emphasis is placed on definition, characteristics, assessment, educational strategies, inclusion, family involvement, and services for children with developmental delays. Upon completion, students should be able to identify, assess, and plan educational intervention strategies for children with developmental delays and their families. (On Demand)

EDU 251 Exploration Activities 3 0 0 3
Prerequisite: *ENG 090 and RED 090*, Corequisite: *None*
or ENG 095

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. (F.)

EDU 256 Inst Strat/Social Studies 2 2 0 3
Prerequisite: *ENG 090 and RED 090* Corequisite: *None*
or EDU 095

This course covers objectives, content, materials, and instructional approaches to social studies. Topics include the integration of history, geography, economics, and government materials; research/study techniques; and critical thinking. Upon completion, students should be able to assess, plan, implement, and evaluate developmentally appropriate experiences as it relates to the NC Standard Course of Study. (Sp.)

EDU 257 Inst Strat/Math 2 2 0 3
Prerequisite: *ENG 090 and RED 090 or* Corequisite: *None*
ENG 095 and MAT 060 or DMA 010-030

This course covers concepts, activities, methods, and materials for teaching mathematics in elementary through middle school grades. Topics include individual instruction, developmental skill building, manipulatives, problem solving, critical thinking and numerical concepts. Upon completion, students should be able to assess, plan, implement and evaluate developmentally appropriate math experiences relating to the NC Standard Course of Study. (F.)

EDU 258 Inst Strategies/Science 2 2 0 3
Prerequisite: *ENG 090 and RED 090*
or ENG 095 Corequisite: *None*

This course covers objectives, content, materials, and instructional approaches to natural sciences for elementary through middle grades. Topics include classroom and laboratory science experiences, research/study techniques, and critical thinking. Upon completion, students should be able to assess/plan/implement/evaluate developmentally appropriate learning experiences in science as related to the North Carolina Standard Course of Study. (Sp.)

EDU 259 Curriculum Planning 3 0 0 3
Prerequisite: *ENG 090 and RED 090 or ENG 095*
and EDU 119 Corequisite: *None*

This course is designed to focus on curriculum planning for three to five year olds. Topics include philosophy, curriculum models, indoor and outdoor environments, scheduling, authentic assessment, and planning developmentally appropriate experiences. Upon completion, students should be able to evaluate children's development, critique curriculum, plan for individual and group needs, and assess and create quality environments. (Sp.)

EDU 261 Early Childhood Admin I 3 0 0 3
Prerequisite: *ENG 090*, Corequisite: *EDU 119*
RED 090 and EDU 119

This course introduces principles of basic programming and staffing, budgeting/financial management and marketing, and rules and regulations of diverse early childhood programs. Topics include program structure and philosophy, standards of NC child care programs, finance,

funding resources, and staff and organizational management. Upon completion, students should be able to develop components of program/personnel handbooks, a program budget, and demonstrate knowledge of fundamental marketing strategies and NC standards. *This course is also available through the Virtual Learning Community (VLC).* (On Demand)

EDU 262 Early Childhood Admin II 3 0 0 3
Prerequisite: *ENG 090 and RED 090* Corequisite: *None*
or ENG 095 and EDU 119, EDU 261

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs. *This course is also available through the Virtual Learning Community (VLC).* (On Demand)

EDU 271 Educational Technology 2 2 0 3
Prerequisite: *CIS 110, ENG 090 and* Corequisite: *None*
RED 090 or ENG 095

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. (F.)

EDU 280 Language & Literacy Exp 3 0 0 3
Prerequisite: *ENG 090 and RED 090* Corequisite: *EDU 280A*
or ENG 095

This course is designed to expand students' understanding of children's language and literacy development and provides strategies for enhancing language/literacy experiences in an enriched environment. Topics include selection of diverse literature and interactive media, the integration of literacy concepts throughout the curriculum, appropriate observations/assessments and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate and diverse language/literacy experiences. *This course is also available through the Virtual Learning Community (VLC).* (F.)

EDU 280A Literacy Exp Lab 0 2 0 1
Prerequisite: *ENG 090 and* Corequisite: *EDU 280*
RED 090 or ENG 095

This course provides a laboratory component to complement EDU 280. Emphasis is placed on practical experiences that enhance concepts introduced in the classroom. Upon completion, students should be able to demonstrate a practical understanding of the development and implementation of appropriate early literacy experiences. (F.)

EDU 281 Instruc Strat/Read & Writ 2 2 0 3
Prerequisite: *ENG 090 and RED 090* Corequisite: *None*
or ENG 095

This course covers concepts, resources, and methods for teaching reading and writing to elementary through middle-grade 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 school-age literacy experiences as related to the North Carolina Standard Course of Study. *This course is also available through the Virtual Learning Community (VLC).* (F.)

EDU 282 Early Childhood Lit 3 0 0 3
Prerequisite: *ENG 090 and RED 090* Corequisite: *None or ENG 095*

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. (Sp.)

EDU 284 Early Child Capstone Prac 1 9 0 4
Prerequisite: *EDU 119, EDU 144, EDU 145, EDU 146, EDU 151 and ENG 090 and RED 090 or ENG 095* Corequisite: *None*

This course is designed to allow students to apply skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits. (F., Sp.)

EDU 285 Internship Exp-School Age 1 9 0 4
Prerequisite: *EDU 118, EDU 144, EDU 145, EDU 163 and ENG 090 and RED 090 or ENG 095* Corequisite: *None*

This course is designed to allow students to apply skills in a quality public or private school environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate lesson plans/assessments, appropriate guidance techniques, ethical/professional behaviors as indicated by assignments and onsite faculty visits. (F., Sp.)

EDU 287 Leadership/Early Child Ed 3 0 0 3
Prerequisite: *EDU 119, EDU 131, EDU 144, EDU 145 and ENG 090 and RED 090 or ENG 095* Corequisite: *None*

This course is designed to facilitate and guide the development of early childhood professionals preparing for leadership roles in improving community early childhood services. Topics include principles of social change, characteristics of effective leaders, techniques of action research, childcare funding mechanisms, quality initiatives, and key issues in early care. Upon completion, students should be able to identify key issues; develop strategic plans; establish relationships with community leaders; and identify opportunities and barriers for advocacy. (On Demand)

EDU 289 Adv Issues/School Age 2 0 0 2
Prerequisite: *ENG 090 and RED 090* Corequisite: *None or ENG 095*

This course covers advanced topics and issues that relate to school-age programs. Emphasis is placed on current advocacy issues, emerging technology, professional growth, ethics, and organizations for providers/teachers working with school-age populations. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues surrounding school-aged populations. (F.)

EGR - Engineering

EGR 110 Intro to Engineering Tech 1 2 0 2
Prerequisite: *None* Corequisite: *None*

This course introduces general topics relevant to engineering technology. Topics include career assessment, professional ethics, critical thinking and problem solving, usage of college resources for study and research, and using tools for engineering computations. Upon completion, students should be able to choose a career option in engineering technology and utilize college resources to meet their educational goals. *This course is available through the Virtual Learning Community (VLC).* (F.)

EGR 150 Intro to Engineering 1 2 0 2
Prerequisite: *None* Corequisite: *None*

This course is an overview of the engineering profession. Topics include goal setting and career assessment, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and computer applications. Upon completion, students should be able to understand the engineering process, the engineering profession, and utilize college resources to meet their educational goals. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* (On Demand)

EGR 220 Engineering Statics 3 0 0 3
Prerequisite: *PHY 251* Corequisite: *MAT 272*

This course introduces the concepts of engineering based on forces in equilibrium. Topics include concentrated forces, distributed forces, forces due to friction, and inertia as they apply to machines, structures, and systems. Upon completion, students should be able to solve problems which require the ability to analyze systems of forces in static equilibrium. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. (On Demand)

ELC - Electricity

ELC 116 Telecom Cabling 3 0 0 2
Prerequisite: *CIS 070* Corequisite: *None*

This course introduces the theory and practical application of both copper and fiber cabling for telecom systems. Topics include transmission theory, noise, standards, cable types and systems, connectors, physical layer components, installation, and ground/shielding techniques. Upon completion, students should be able to choose the correct cable, install, test, and troubleshoot cabling for telecom. (On Demand)

ELC 120 Intro to Wiring 2 2 0 3
Prerequisite: *None* Corequisite: *None*

This course is an introduction to wiring concepts for non-electricians. Topics include safety, tools, materials, techniques and terminology

associated with electrical wiring. Upon completion, students should be able to use and/or identify wiring tools, materials and procedures at an introductory level. (Sp.)

ELC 125 Diagrams and Schematics 1 2 0 2

Prerequisite: *None* Corequisite: *None*

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. (F.)

ELC 127 Software for Technicians 1 3 0 2

Prerequisite: *None* Corequisite: *None*

This course introduces computer software which one 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. (F.)

ELC 128 Intro to PLC 2 3 0 3

Prerequisite: *ELN 133* Corequisite: *None*

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. *This course is also available through the Virtual Learning Community (VLC).* (F.)

ELC 131 DC/AC Circuit Analysis 4 3 0 5

Prerequisite: *None* Corequisite: *None*

This course introduces DC and AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation software, and interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment. (F.)

ELC 233 Energy Management 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course covers energy management principles and techniques typical of those found in industry and commercial facilities, including load control and peak demand reduction systems. Topics include load and peak demand calculations, load shedding, load balance and power factor, priority scheduling, remote sensing and control, and supplementary/alternative energy sources. Upon completion, students should be able to determine energy management parameters, calculate demand and energy use, propose energy management procedures, and implement alternative energy sources. (On Demand)

ELN - Electronics

ELN 133 Digital Electronics 3 3 0 4

Prerequisite: *ELC 131* Corequisite: *None*

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. *This*

course is also available through the Virtual Learning Community (VLC). (Sp.)

ELN 137 Electr Devices & Circuits 4 3 0 5

Prerequisite: *ELC 131* Corequisite: *None*

This course covers diodes, transistors, linear integrated circuits, and IC voltage regulators. Topics include power supplies, switching circuits, a.m.plifiers, oscillators, active filters, and other related topics. Upon completion, students should be able to analyze and troubleshoot circuits using schematic diagrams, appropriate test equipment, and manufacturer's data sheets. (Sp.)

ELN 231 Industrial Controls 2 3 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces the fundamental concepts of control of rotating machinery and associated peripheral devices. Topics include rotating machine theory, ladder logic, electromechanical and solid state relays, motor controls, pilot devices, three-phase power systems, and other related topics. Upon completion, students should be able to interpret schematics and demonstrate an understanding of electromechanical and electronic control of rotating machinery. (F.)

ENG - English

ENG 080 Writing Foundations 3 2 0 4

Prerequisite: *Appropriate score on placement test (AW = 23-35, COMPASS = 1-23)* Corequisite: *None*

This course introduces the writing process and stresses effective sentences. Emphasis is placed on applying the conventions of written English, reflecting standard usage and mechanics in structuring a variety of sentences. Upon completion, students should be able to write correct sentences and a unified, coherent paragraph. Students scoring into ENG 080 must also complete ACA 090 Study Skills, before registering for ENG 111, Expository Writing. (F., Sp., S.)

ENG 090 Composition Strategies 3 0 0 3

Prerequisites: *ENG 080 or ENG 081 or ENG 085 (C or better) or appropriate score on placement test (AW = 36-43, COMPASS = 24-70)*

Corequisite: *ENG 090A*

This course provides practice in the writing process and stresses effective paragraphs. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay. (F., Sp., S.)

ENG 090A Comp Strategies Lab 0 2 0 1

Prerequisite: *ENG 080 or ENG 081 or ENG 095(C or better) or appropriate score on placement test (AW = 36-43, COMPASS - 24-70)*

Corequisite: *ENG 090*

This writing lab is designed to practice the skills introduced in ENG 090. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay. (F., Sp., S.)

ENG 095 Reading & Comp Strategies 5 0 0 5

Prerequisite: *ENG-080 and RED-080; or ENG-085 (C or better) or appropriate score on placement tests.*

Corequisite: *None*

This course uses whole language to strengthen proficiency in reading and writing for college. Emphasis is placed on applying critical reading skills to narrative and expository texts and on using the writing process. Upon completion, students should be able to comprehend, analyze, and evaluate college texts and to compose essays in preparation for college writing. (F., Sp., S.)

ENG 095A Reading & Comp Strat Lab ENG-095A 0 2 0 1

Prerequisite: *ENG 080 and RED 080; or ENG 085 (C or better) or appropriate score on placement tests.*

Corequisite: *Take ENG 095*

This laboratory provides the opportunity to practice the skills introduced in ENG 095. Emphasis is placed on practical skills for applying critical reading skills to narrative and expository texts and on the writing process. Upon completion, students should be able to apply those skills in the production of effective essays in preparation for college writing. (F., Sp., S.)

ENG 102 Applied Communications II 3 0 0 3

Prerequisite: *None* Corequisite: *None*

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. (F., S.)

ENG 111 Expository Writing 3 0 0 3

Prerequisite: *ENG 090 or ENG 095 (C or better) or appropriate score on placement test (AW = 41+, COMPASS = 70+ CPT = 86 + ENG 131, ENG 132) and RED 090 (C or better) or appropriate score on placement test (AR = 41+, COMPASS = 81+ CPT = 80+)*

Corequisite: *None*

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, 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 is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

ENG 113 Literature-Based Research 3 0 0 3

Prerequisite: *ENG 111 (C or better)* Corequisite: *None*

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 is also available through the Virtual Learning Community (VLC). (F., Sp., S.)

ENG 114 Prof Research & Reporting 3 0 0 3

Prerequisite: *ENG 111 (C or better)* Corequisite: *None*

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

ENG 125 Creative Writing I 3 0 0 3

Prerequisite: *ENG 111 (C or better)* Corequisite: *None*

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on fiction, writing, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* (On Demand)

ENG 126 Creative Writing II 3 0 0 3

Prerequisite: *ENG 125* Corequisite: *None*

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 premajor and/or elective course requirement.* (On Demand)

ENG 131 Introduction to Literature 3 0 0 3

Prerequisite: *ENG 111* Corequisite: *ENG 113 or ENG 114*

This course introduces the principal genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature. This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. (On Demand)

ENG 132 Introduction to Drama 3 0 0 3

Prerequisite: *ENG 111* Corequisite: *ENG 113 or ENG 114*

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 for transfer under the CAA as a premajor and/or elective course requirement. (On Demand)

ENG 231 American Literature I 3 0 0 3

Prerequisite: *ENG 113 or ENG 114 (C or better)*

Corequisite: *None*

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze,

and respond to literary works in their historical and cultural contexts. This course has been designated as writing-intensive. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

ENG 232 American Literature II 3 0 0 3

Prerequisite: *ENG 113 or ENG 114 (C or better)*

Corequisite: *None*

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 designated as writing-intensive. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

ENG 235 Survey of Film As Lit 3 0 0 3

Prerequisite: *ENG 113 (C or better)* Corequisite: *None*

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 for transfer under the CAA as a premajor and/or elective course requirement.* (On Demand)

ENG 241 British Literature I 3 0 0 3

Prerequisite: *ENG 113 or ENG 114 (C or better)*

Corequisite: *None*

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 designated as writing-intensive. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

ENG 242 British Literature II 3 0 0 3

Prerequisite: *ENG 113 or ENG 114 (C or better)*

Corequisite: *None*

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 designated as writing-intensive. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

ENG 261 World Literature I 3 0 0 3

Prerequisite: *ENG 113 or ENG 114 (C or better)*

Corequisite: *None*

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the a.m.ericas from their literary beginnings through the seventeenth century. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. This course has been designated as writing-intensive. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

ENG 262 World Literature II 3 0 0 3

Prerequisite: *ENG 113 or ENG 114 (C or better)*

Corequisite: *None*

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the a.m.ericas 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 designated as writing-intensive. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

ENG 273 African-American Literature 3 0 0 3

Prerequisite: *ENG 113 or ENG 114 (C or better)*

Corequisite: *None*

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 designated as writing-intensive. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

ENV - Environmental Science

ENV 110 Environmental Science 3 0 0 3

Prerequisite: *None*

Corequisite: *None*

This course covers the environmental problems facing society today. Topics include population, natural resources, air and water pollution, and waste disposal problems. Upon completion, students should be able to demonstrate insight into the role the individual plays in shaping the environment. (On Demand)

EPT - Emergency Preparedness

EPT 120 Sociology of Disaster 3 0 0 3

Prerequisite: *None*

Corequisite: *None*

This course is designed to overview sociological disaster research, disaster systems, and alternative research approaches. Topics include human and organizational behaviors, long term disaster impact on communities, disaster warning, and evacuation considerations. Upon completion, students should be able to assess and predict the impact of disaster-related human behavior. (F.)

EPT 130 Mitigation & Preparedness 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the mitigation and preparation techniques and methods necessary to minimize the impact of natural, technological, and man-made disasters. Topics include hazard identification and mapping, design and construction applications, financial incentives, insurance, structural controls, preparation, planning, assessment, implementation, and exercises. Upon completion students should be able to develop a mitigation and preparedness plan. (F.)

EPT 150 Incident Management 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course covers the fully integrated incident management system for EMS response to high impact incidents. Topics include mass casualty incidents, terrorists events, communications, training, triage, law and fire incident command. Upon completion, students should be able to implement and operate within the National Incident Management System. (Sp.)

EPT 210 Response & Recovery 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course covers the basic concepts and operational procedures and authorities involved in responding to major disasters. Topics include Federal, State, and local roles and responsibilities in major disaster recovery work with an emphasis on governmental coordination. Upon completion, students should be able to implement a disaster plan and assess the needs of those involved in a major disaster. (F.)

EPT 220 Terrorism and Emer. Mgt. 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course is covers preparing for, responding to and safely mitigating terrorism incidents. Topics include the history of terrorism, scene hazards, evidence preservation, risk assessment, roles and responsibilities, explosive recognition, and terrorism planning. Upon completion, students should be able to recognize the threat of terrorism and operate within the emergency management framework at a terrorism incident. (Sp.)

EPT 275 Emergency OPS Center Mgt 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course provides students with the knowledge and skills to effectively manage and operate an EOC during crisis situations. Topics include properly locating and designing an EOC, staffing, training and briefing EOC personnel, and how to operate an EOC. Upon completion, students should be able to demonstrate how to set up and operate an effective emergency operations center. (Sp.)

FIP - Fire Protection**FIP 120 Intro to Fire Protection** 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course provides an overview of the history, development, methods, systems, and regulations as they apply to the fire protection field. Topics include history, evolution, statistics, suppression, organizations, careers, curriculum, and other related topics. Upon completion, students should be able to demonstrate a broad understanding of the fire protection field. *This course is also available through the Virtual Learning Community (VLC).* (F.)

FIP 128 Detection & Investigation 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course covers procedures for determining the origin and cause of accidental and incendiary fires. Topics include collection and preservation of evidence, detection and determination of accelerants, courtroom procedure and testimony, and documentation of the fire scene. Upon completion, students should be able to conduct a competent fire investigation and present those findings to appropriate officials or equivalent, meeting NFPA 1021. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

FIP 176 HazMat: Operations 4 0 0 4Prerequisite: *None*Corequisite: *None*

This course is designed to increase first responder awareness of the type, nature, physiological effects of, and defensive techniques for mitigation of HazMat incidents. Topics include recognition, identification, regulations and standards, zoning, resource usage, defensive operations, and other related topics. Upon completion, students should be able to recognize and identify the presence of hazardous materials and use proper defensive techniques for incident mitigation. (S.)

FIP 228 Local Gov. Finance 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces local governmental financial principles and practices. Topics include budget preparation and justification, revenue policies, statutory requirements, taxation, audits, and the economic climate. Upon completion, students should be able to comprehend the importance of finance as it applies to the operation of a department. (F.)

FIP 236 Emergency Management 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course covers the four phases of emergency management: mitigation, preparedness, response, and recovery. Topics include organizing for emergency management, coordinating for community resources, public sector liability, and the roles of government agencies at all levels. Upon completion, students should be able to demonstrate a knowledge of comprehensive emergency management and the integrated emergency management system. (Sp.)

FIP 256 Municipal Public Relations 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course is a general survey of municipal public relations and their effect on the governmental process. Topics include principles of public relations, press releases, press conferences, public information officers, image surveys, and the effects of perceived service on fire protection delivery. Upon completion, students should be able to manage the public relations functions of a fire service organization, which meet elements of NFPA 1021 for Fire Officer I and II. (Sp.)

FIP 276 Managing Fire Services 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course provides an overview of fire department operative services. Topics include finance, staffing, equipment, code enforcement, management information, specialized services, legal issues, planning, and other related topics. Upon completion, students should be able to understand concepts and apply fire department management and operations principles, meeting NFPA 1021. (F.)

FOR - Forest Management**FOR 121 Dendrology** 2 6 0 4Prerequisite: *None*Corequisite: *None*

This course covers field identification, classifications, uses, and nomenclature of trees. Emphasis is placed on silvics, characteristics, commercial importance, and wildlife benefits of trees. Upon completion, students should be able to identify trees and understand their uses. (F.)

FOR 131 Forest Measurements 2 3 0 3Prerequisite: *None*Corequisite: *None*

This course introduces basic land and tree measurement equipment and mapping techniques. Emphasis is placed on developing skills for land, tree, and log measurements. Upon completion, students should be able to accurately use land and tree measurement equipment. (Sp.)

FOR 161 Safety & Woodsmanship 1 3 0 2Prerequisite: *None*Corequisite: *None*

This course introduces potential life threatening or serious injury situations that may occur during outdoor activities and basic orienteering. Topics include injuries by mechanical equipment, plants, animals, and climatic conditions and the proper treatment for each situation. Upon completion, students should be able to respond to emergency situations which may occur in a forest environment. (F.)

FOR 171 Intro to Forest Resources 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the relationships within the forest and its various uses. Emphasis is placed on forest history, ecology, protection, management, policies, and practices. Upon completion, students should be able to discuss the relationship of the forest and its use to the welfare of mankind. (F.)

FOR 173 Soils & Hydrology 2 3 0 3Prerequisite: *None*Corequisite: *None*

This course covers concepts of soils and water including physical and chemical soil properties. Emphasis is placed on soil sampling, identification, plant-site relationships, water movement, and properties. Upon completion, students should be able to relate soil and water characteristics to forest growth and water quality. (Sp.)

FOR 175 Wildlife/Environ Studies 2 3 0 3Prerequisite: *None*Corequisite: *None*

This course provides an overview of wildlife and environmental issues pertaining to the ecological, social, and economic aspects of forestry. Topics include wildlife management, wetland delineation, endangered species detection, protection, landowner rights, liabilities, regulations, and law. Upon completion, students should be able to demonstrate a knowledge of how wildlife and environmental issues affect forestry in the United States. (F.)

FOR 212 Forest Surv & Aerial Ine 2 3 0 3Prerequisite: *None*Corequisite: *None*

This course covers the basic concepts of plane surveying and aerial photo interpretation. Emphasis is placed on boundary location and acreage determination both on the ground and through aerial photographs. Upon completion, students should be able to use basic surveying equipment and aerial photographs for forest land measurements. (Sp.)

FOR 215 Intro to GIS/GPS 1 4 0 3Prerequisite: *None*Corequisite: *None*

This course introduces geographic information systems and global positioning devices. Emphasis is placed on the use of existing hardware and software to create and update computer generated maps. Upon completion, students should be able to understand the uses and limitations of GIS and GPS devices in forestry applications. (F.)

FOR 225 Silvics & Silviculture 3 3 0 4Prerequisite: *None*Corequisite: *None*

This course covers the establishment, development, care, and harvesting of forest stands. Emphasis is placed on the application of various techniques used to control stand establishment, composition, and growth. Upon completion, students should be able to understand and apply appropriate forest stand improvement techniques. (S.)

FOR 232 Forest Mensuration 2 6 0 4Prerequisite: *FOR 131*Corequisite: *None*

This course provides applications of previously covered measurement techniques to the volume estimation and valuation of forest stands. Emphasis is placed on applications of various timber cruising methods. Upon completion, students should be able to determine the size, volume, and quality of forest stands. (S.)

FOR 241 Forest Fire Management 2 3 0 3Prerequisite: *None*Corequisite: *None*

This course covers the nature of wildfire and the uses of prescribed burning in a forest or urban interface setting. Topics include prevention, detection, suppression, causes, and the ecological and economic effects of fire. Upon completion, students should be able to use fire as a management tool and participate in the suppression of wildfire. (Sp.)

FOR 243 Insects/Diseases 2 3 0 3Prerequisite: *None*Corequisite: *None*

This course provides information on forest insects, diseases, and related control methods. Topics include insect and disease classification, herbicides, pesticides, and promoting forest health through sound silviculture practices. Upon completion, students should be able to identify the most common forest insects and diseases and recommend biological, cultural, silvicultural, and chemical controls. (S.)

FOR 273 Forest Mgt Issues 0 6 0 2Prerequisite: *FOR 225 and FOR 232*Corequisite: *None*

This course is designed as a capstone course in the application of land management and procurement skills. Emphasis is placed on formulating a comprehensive land management plan, including a complete timber cruise. Upon completion, students should be able to locate timber tracts and identify timber, water, wildlife, and recreation options for the landowner. (Sp.)

FOR 285 Logging & Marketing 2 3 0 3Prerequisite: *None*Corequisite: *None*

This course covers logging systems commonly used in the Southeast. Emphasis is placed on roading, matching equipment to job requirements, safety, legal requirements, and primary manufacturing of forest products. Upon completion, students should be able to supervise a logging operation. (F.)

FRE - French

FRE 111 Elementary French I 3 0 0 3
 Prerequisite: *None* Corequisite: *FRE 181*
 This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

FRE 112 Elementary French II 3 0 0 3
 Prerequisite: *FRE 111 (C or better)* Corequisite: *FRE 182*
 This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

FRE 181 French Lab 1 0 2 0 1
 Prerequisite: *None* Corequisite: *None*
 This course provides an opportunity to enhance acquisition of the fundamental elements of the French language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

FRE 182 French Lab 2 0 2 0 1
 Prerequisite: *FRE 181 (C or better)* Corequisite: *None*
 This course provides an opportunity to enhance acquisition of the fundamental elements of the French language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

FRE 211 Intermediate French I 3 0 0 3
 Prerequisite: *FRE 112* Corequisite: *None*
 This course provides a review and expansion of the essential skills of the French language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

FRE 212 Intermediate French II 3 0 0 3
 Prerequisite: *FRE 211* Corequisite: *None*
 This course is a continuation of FRE 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

FRE 281 French Lab 3 0 2 0 1
 Prerequisite: *FRE 182* Corequisite: *None*
 This course provides an opportunity to enhance the review and expansion of the essential skills of the French language. Emphasis is placed on the study of authentic and representative literary and cultural texts through the use of supplementary learning media and materials. 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 for transferability as a pre-major and/or elective course requirement.* (On Demand)

FRE 282 French Lab 4 0 2 0 1
 Prerequisite: *FRE 281* Corequisite: *None*
 This course provides an opportunity to enhance the review and expansion of the essential skills of the French language. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts through the use of supplementary learning media and materials. 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 for transferability as a pre-major and/or elective course requirement.* (On Demand)

FWL - Fish and Wildlife

FWL 142 Wildlife Management 2 3 0 3
 Prerequisite: *None* Corequisite: *None*
 This course introduces the principles of wildlife management, including basic concepts, terminology, and techniques important to wildlife managers. Topics include a review of the history of wildlife management, ecological principles, an introduction to wildlife habitat requirements, and population dynamics. Upon completion, students should be able to understand and discuss the life history, management techniques, and habitat requirements of North American species. (Sp.)

GRD - Graphic Design

GRD 121 Drawing Fundamentals I 1 3 0 2
 Prerequisite: *None* Corequisite: *None*
 This course increases observation skills using basic drawing techniques and media in graphic design. Emphasis is placed on developing the use of graphic design principles, media applications, spatial considerations, drawing styles, and approaches. Upon completion, students should be able to show competence and proficiency in finished works. (This course is offered at Wake Technical Community College) (F.)

GEO - Geography

GEO 111 World Regional Geography 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course introduces the regional concept which emphasizes the

spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

GRO - Gerontology

GRO 120 Gerontology 3 0 0 3

Prerequisite: *PSY 150* Corequisite: *None*

This course covers the psychological, social, and physical aspects of aging. Emphasis is placed on the factors that promote mental and physical well-being. Upon completion, students should be able to recognize the aging process and its psychological, social, and physical aspects. (Sp. or On Demand)

HEA - Health

HEA 110 Personal Health/Wellness 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course provides an introduction to basic personal health and wellness. Emphasis is placed on current health issues such as nutrition, mental health, and fitness. Upon completion, students should be able to demonstrate an understanding of the factors necessary to the maintenance of health and wellness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

HEA 112 First Aid & CPR 1 2 0 2

Prerequisite: *None* Corequisite: *None*

This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp., S.)

HIS - History

HIS 111 World Civilizations I 3 0 0 3

Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.* (F., Sp., On Demand)

HIS 112 World Civilizations II 3 0 0 3

Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the a.m.ericas. 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.* (F., Sp., On Demand)

HIS 116 Current World Problems 3 0 0 3

Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course covers current world events from an historical perspective. Topics include regional problems as well as international concerns. Upon completion, students should be able to analyze significant current world problems from an historical perspective. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

HIS 121 Western Civilization I 3 0 0 3

Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course introduces western civilization from pre-history to the early modern era. Topics include ancient Greece, Rome, and Christian institutions of the Middle Ages and the emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

HIS 122 Western Civilization II 3 0 0 3

Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

HIS 131 American History I 3 0 0 3

Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the a.m.ericas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., On Demand)

HIS 132 American History II 3 0 0 3

Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. *This course has been approved to satisfy*

the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC). (F., Sp., On Demand)

HIS 162 Women and History 3 0 0 3
Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course surveys the experience of women in historical perspective. Topics include the experiences and contributions of women in culture, politics, economics, science, and religion. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural contributions of women in history. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

HIS 221 African-American History 3 0 0 3
Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course covers African-American history from the Colonial period to the present. Topics include African origins, the slave trade, the Civil War, Reconstruction, the Jim Crow era, the civil rights movement, and contributions of African-Americans. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the history of African-Americans. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

HIS 226 The Civil War 3 0 0 3
Prerequisite: *None* Corequisite: *None*

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, and cultural developments in the United States during the era of Civil War. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

HIS 228 History of the South 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course covers the origin and development of the South as a distinct region of the United States. Emphasis is placed on Southern identity and its basis in cultural, social, economic, and political developments during the 19th and 20th centuries. Upon completion, students should be able to identify and analyze the major cultural, social, economic, and political developments in the South. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

HIS 236 North Carolina History 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course is a study of geographical, political, economic, and social conditions existing in North Carolina from a.m.eric'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. (On Demand)

HOR - Horticulture

HOR 150 Intro to Horticulture 2 0 0 2
Prerequisite: *None* Corequisite: *None*

This course covers the history, development, and basic techniques of horticulture. Topics include propagation techniques, planting procedures, watering and fertility, plant growth, pest and disease control, and garden design and history. Upon completion, students should be able to demonstrate an understanding of the basic principles of horticulture. (S.)

HSE - Human Services

HSE 110 Intro to Human Services 2 2 0 3
Prerequisite: *None* Corequisite: *None*

This course introduces the human services field, including the history, agencies, roles, and careers. Topics include personal/professional characteristics, diverse populations, community resources, disciplines in the field, systems, ethical standards, and major theoretical and treatment approaches. Upon completion, students should be able to identify the knowledge, skills, and roles of the human services worker. *This course is also available through the Virtual Learning Community (VLC).* (F. or On Demand)

HSE 112 Group Process I 1 2 0 2
Prerequisite: *None* Corequisite: *None*

This course introduces interpersonal concepts and group dynamics. Emphasis is placed on self-awareness facilitated by experiential learning in small groups with analysis of personal experiences and the behavior of others. Upon completion, students should be able to show competence in identifying and explaining how people are influenced by their interactions in group settings. (F. or On Demand)

HSE 123 Interviewing Techniques 2 2 0 3
Prerequisite: *None* Corequisite: *None*

This course covers the purpose, structure, focus, and techniques employed in effective interviewing. Emphasis is placed on observing, attending, listening, responding, recording, and summarizing of personal histories with instructor supervision. Upon completion, students should be able to perform the basic interviewing skills needed to function in the helping relationship. (Sp. or On Demand)

HSE 125 Counseling 2 2 0 3
Prerequisite: *None* Corequisite: *None*

This course covers the major approaches to psychotherapy and counseling, including theory, characteristics, and techniques. Emphasis is placed on facilitation of self-exploration, problem solving, decision making, and personal growth. Upon completion, students should be able to understand various theories of counseling and demonstrate counseling techniques. (F.)

HSE 210 Human Services Issues 2 0 0 2
Prerequisite: *None* Corequisite: *None*

This course covers current issues and trends in the field of human services. Emphasis is placed on contemporary topics with relevance to special issues in a multi-faceted field. Upon completion, students should be able to integrate the knowledge, skills, and experiences gained in classroom and clinical experiences with emerging trends in the field. *This course is also available through the Virtual Learning Community (VLC).* (F. or On Demand)

HSE 225 Crisis Intervention 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the basic theories and principles of crisis intervention. Emphasis is placed on identifying and demonstrating appropriate and differential techniques for intervening in various crisis situations. Upon completion, students should be able to assess crisis situations and respond appropriately. (F. or On Demand)

HUM - Humanities**HUM 110 Technology and Society** 3 0 0 3Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

HUM 115 Critical Thinking 3 0 0 3Prerequisite: *ENG 090 and RED 090 or ENG 095*Corequisite: *None*

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may meet the SACS humanities requirement for AAS degree programs. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

HUM 120 Cultural Studies 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (Sp.)

HUM 121 The Nature of America 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course provides an interdisciplinary survey of the American cultural, social, and political experience. Emphasis is placed on the multicultural character of American society, distinctive qualities of various regions, and the American political system. Upon completion, students should be able to analyze significant cultural, social, and political aspects of American life. This course has been designated as writing-intensive. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (F.)

HUM 122 Southern Culture 3 0 0 3Prerequisite: *None*Corequisite: *None*

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. This course is also available through the Virtual Learning Community (VLC).* (On Demand)

HUM 130 Myth in Human Culture 3 0 0 3Prerequisite: *None*Corequisite: *None*

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.* (On Demand)

HUM 211 Humanities I 3 0 0 3Prerequisite: *ENG 111*Corequisite: *None*

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 designated as writing-intensive. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (Sp.)

HYD - Hydraulics**HYD 110 Hydraulics/Pneumatics I** 2 3 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting. (F.)

HYD 121 Hydraulics/Pneumatics II 1 3 0 2Prerequisite: *HYD 110*Corequisite: *None*

This course is a continuation of HYD 110 and provides further investigation into fluid power systems. Topics include advanced system components, troubleshooting, and other related topics. Upon completion, students should be able to demonstrate an understanding of the installation, application, operation, and maintenance of fluid power components and systems. (Sp.)

ISC - Industrial Safety**ISC 121 Environment Health & Safety** 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course covers workplace environmental health and safety concepts. Emphasis is placed on managing the implementation and enforcement of environmental health and safety regulations and on preventing accidents, injuries, and illnesses. Upon completion, students should be able to demonstrate an understanding of basic concepts of environmental health and safety issues. (F., Sp.)

ISC 128 Industrial Leadership 2 0 0 2Prerequisite: *None*Corequisite: *None*

This course introduces principles and techniques for managers in modern industry. Topics include leadership traits, management principles and processes, managing conflict, group dynamics, team building, counseling, motivation, and communication. Upon completion, students should be able to understand and apply leadership and management principles in work situations. (On Demand)

ISC 130 Introduction to Quality Control 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course introduces the philosophies, principles, and techniques of managing quality. Topics include the functions, responsibilities, structures, costs, reports, personnel, and vendor-customer relationships associated with quality control and management. Upon completion, students should be able to demonstrate an understanding of quality control and management. (On Demand)

ISC 131 Quality Management 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course provides a study and analysis of the aspects and implications of quality management that lead to customer satisfaction through continuous quality improvement. Topics include Total Quality Management, ISO 9000, organizing for quality, supplier/vendor relationships, and the role of leadership in quality management. Upon completion, students should be able to demonstrate an understanding of quality management concepts and techniques. (On Demand)

ISC 132 Manufacturing Quality Control 2 3 0 3

Prerequisite: *DMA 010-050 or MAT 060* Corequisite: *None and DMA 040, 050 or MAT 060 and MAT 070, RED 090 or ENG 095*

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. (Sp.)

ISC 210 Prod and Operational Planning 3 0 0 3

Prerequisite: *DMA 010-050 or MAT 060* Corequisite: *None and DMA 040, 050 or MAT 060 and MAT 070, RED 090 or ENG 095*

This course includes the fundamentals of operations and production planning, forecasting, and scheduling. Topics include demand management, production planning and control, scheduling, and budgeting. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques involved in operations and production planning. *This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.* (F., Sp.)

ISC 220 Lean Manufacturing 2 2 0 3Prerequisite: *None*Corequisite: *None*

This course introduces students to the concept of lean manufacturing as a means of waste reduction. Topics include the examination of manufacturing operations and the incorporation of lean techniques to reduce waste, cost, time, and materials in manufacturing processes. Upon completion, students should be able to demonstrate an understanding of lean manufacturing systems and how they benefit the environment and business. (S.)

ISC 221 Statistical Qual Control 3 0 0 3

Prerequisite: *DMA 010-050 or MAT 060* Corequisite: *None and DMA 040, 050 or MAT 060 and MAT 070, RED 090 or ENG 095*

This course covers the principles and techniques of statistical process control for the improvement of productivity. Emphasis is placed on basic statistics for quality control, organization and procedures for efficient quality control including inspections, process control, and tests of significance. Upon completion, students should be able to apply statistical principles and techniques to enhance production. (On Demand)

JPN- Japanese**JPN 111 Elementary Japanese I** 3 0 0 3Prerequisites: *None*Corequisite: *JPN 181*

This course introduces the basic fundamentals of the Japanese language within a cultural context of the Japanese people and its history. Emphasis is placed on the basic skills in speaking, reading, writing, and comprehension of spoken language. Upon completion, students should be able to have a communicative competence in speaking, listening comprehension, reading, and writing at a beginning level with attention to cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

JPN 112 Elementary Japanese II 3 0 0 3Prerequisites: *JPN 111*Corequisite: *JPN 182*

This course continues the basic fundamentals of the Japanese language within a cultural context of the Japanese people and its history. Emphasis is placed on the basic skills in speaking, reading, writing, and comprehension of spoken language. Upon completion, students should be able to have a communicative competence in speaking, listening comprehension, reading, and writing at a beginning level with attention to cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

JPN 181 Japanese Lab I 0 2 0 1Prerequisites: *None*Corequisite: *None*

This course provides an opportunity to enhance acquisition of the fundamental elements of the Japanese language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Japanese and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* (On Demand)

JPN 182 Japanese Lab II 0 2 0 1Prerequisites: *JPN 181*Corequisite: *None*

This course provides an opportunity to enhance acquisition of the fundamental elements of the Japanese language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Japanese and demonstrate cultural awareness. *This course has*

been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. (On Demand)

JOU - Journalism

JOU 110 Intro to Journalism 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course presents a study of journalistic news, feature, 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, feature, 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.* (On Demand)

JOU 111 Publication Workshop I 1 3 0 2

Prerequisite: *JOU 110* Corequisite: *None*

This course introduces the basic techniques of producing a publication. Emphasis is placed on writing, editing, layout, design, and printing. Upon completion, students should be able to demonstrate competence in the various phases of publication production. (On Demand)

JOU 112 Publication Workshop II 1 3 0 2

Prerequisite: *JOU 111* Corequisite: *None*

This course is a continuation of the basic techniques of producing a publication. Emphasis is placed on writing, editing, layout, design, and printing. Upon completion, students should be able to demonstrate competence in the various phases of publication production. (On Demand)

MAC - Machining

MAC 114 Intro to Metrology 2 0 0 2

Prerequisite: *None* Corequisite: *None*

This course introduces the care and use of precision measuring instruments. Emphasis is placed on the inspection of machine parts and use of a wide variety of measuring instruments. Upon completion, students should be able to demonstrate the correct use of measuring instruments. (On Demand)

MAC 121 Intro to CNC 2 0 0 2

Prerequisite: *None* Corequisite: *None*

This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. Upon completion, students should be able to explain operator safety, machine protection, data input, program preparation, and program storage. (F.)

MAC 122 CNC Turning 1 3 0 2

Prerequisite: *None* Corequisite: *None*

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. (Sp.)

MAC 124 CNC Milling 1 3 0 2

Prerequisite: *None* Corequisite: *None*

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. (Sp.)

MAC 131 Blueprint Reading/Mach I 1 2 0 2

Prerequisite: *None* Corequisite: *None*

This course covers the basic principles of blueprint reading and sketching. Topics include multi-view drawings; interpretation of conventional lines; and dimensions, notes, and thread notations. Upon completion, students should be able to interpret basic drawings, visualize parts, and make pictorial sketches. (F.)

MAC 132 Blueprint Reading/Mach II 1 2 0 2

Prerequisite: *MAC 131* Corequisite: *None*

This course introduces more complex industrial blueprints. Emphasis is placed on auxiliary views, section views, violations of true project, special views, applications of GD & T, and interpretation of complex parts. Upon completion, students should be able to read and interpret complex industrial blueprints. (Sp.)

MAC 141 Machining Applications I 2 6 0 4

Prerequisite: *None* Corequisite: *None*

This course provides an introduction to a variety of material-working processes that are common to the machining industry. Topics include safety, process-specific machining equipment, measurement devices, set-up and layout instruments, and common shop practices. Upon completion, students should be able to safely demonstrate basic machining operations, accurately measure components, and effectively use layout instruments. (F.)

MAC 142 Machining Applications II 2 6 0 4

Prerequisite: *MAC 141* Corequisite: *None*

This course provides instruction in the wide variety of processes associated with machining. Topics include safety, equipment set-up, holding fixtures, tooling, cutting speeds and depths, metal properties, and proper finishes. Upon completion, students should be able to safely demonstrate advanced machining operations, accurately measure components, and produce accurate components with a proper finish. (Sp.)

MAC 143 Machining Appl III 2 6 0 4

Prerequisite: *MAC 141* Corequisite: *None*

This course provides instruction in the field of advanced machining. Emphasis is placed on creating complex components, close-tolerance machining, precise measurement, and proper equipment usage. Upon completion, students should be able to demonstrate the ability to produce an accurately machined component with a quality finish using the proper machining process. (F.)

MAC 151 Machining Calculations 1 2 0 2

Prerequisite: *None* Corequisite: *None*

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. (F.)

MAC 160 Coordinate Measuring Mach 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces methods in the setup and operation of coordinate measuring machines. Emphasis is placed on the programming of coordinate measuring machines and the measurement of complex parts. Upon completion, students should be able to demonstrate

skills in programming, operation, and setup of coordinate measuring machines. (F.)

MAC 171 Measure/Material & Safety 0 2 0 1

Prerequisite: *None* Corequisite: *None*

This course introduces precision measuring instruments, process control and adjustment, inspection, material handling and workplace safety. Topics include properly identifying and handling various measurement instruments and materials, process control, adjustment and improvement, personal protective equipment (PPE) and OSHA safety regulations. Upon completion, students should be able to safely demonstrate effective measurement techniques, identify and handle various materials, and explain safe industry practices. (F.)

MAC 172 Job Plan, Bench & Layout 0 2 0 1

Prerequisite: *None* Corequisite: *None*

This course introduces the basics of job process planning, sawing, and manual operations including benchwork and layout. Topics include deciphering blueprints and/or schematics, dimensions, design and using various instruments required in the layout of various components. Upon completion, students should be able to demonstrate an understanding of job plans, dimensions, design, transfer and layout common to the machining industry. (F.)

MAC 222 Advanced CNC Turning 1 3 0 2

Prerequisite: *MAC 122* Corequisite: *None*

This course covers advanced methods in setup and operation of CNC turning centers. Emphasis is placed on programming and production of complex parts. Upon completion, students should be able to demonstrate skills in programming, operations, and setup of CNC turning centers. (S.)

MAC 224 Advanced CNC Milling 1 3 0 2

Prerequisite: *MAC 124* Corequisite: *None*

This course covers advanced methods in setup and operation of CNC machining centers. Emphasis is placed on programming and production of complex parts. Upon completion, students should be able to demonstrate skills in programming, operations, and setup of CNC machining centers. (S.)

MAC 228 Advanced CNC Processes 2 3 0 3

Prerequisite: *None* Corequisite: *None*

This course covers advanced programming, setup, and operation of CNC turning centers and CNC milling centers. Topics include advanced programming formats, control functions, program editing, and part production and inspection. Upon completion, students should be able to manufacture complex parts using CNC turning and milling centers. (F.)

MAC 233 Appl in CNC Machining 2 12 0 6

Prerequisite: *MEC 231 and MAC 124 or MAC 122*

Corequisite: *None*

This capstone course provides students the opportunity to apply skills learned throughout the curriculum. Emphasis is placed on production of parts and assemblies using modern CNC machine tools. Upon completion, students should be able to manufacture complex parts using a variety of CNC machine tools. (Sp.)



MAC 247 Production Tooling 2 0 0 2

Prerequisite: *None* Corequisite: *None*

This course provides advanced study in tooling currently utilized in the production of metal parts. Emphasis is placed on the proper use of tooling used on CNC and other production machine tools. Upon completion, students should be able to choose proper tool grades based on manufacturing requirements and troubleshoot carbide tooling problems. (Sp.)

MAT- Mathematics

MAT 050 Basic Math Skills 3 2 0 4

Prerequisite: *None* Corequisite: *None*

This course is designed to strengthen basic math skills. Topics include properties, rounding, estimating, comparing, converting, and computing whole numbers, fractions, and decimals. Upon completion, students should be able to perform basic computations and solve relevant mathematical problems. (F., Sp.)

MAT 060 Essential Mathematics 3 2 0 4

Prerequisite: *MAT 050 or appropriate scores on placement tests.* Corequisite: *None*

This course is a comprehensive study of mathematical skills which should provide a strong mathematical foundation to pursue further study. Topics include principles and applications of decimals, fractions, percents, ratio and proportion, order of operations, geometry, measurement, and elements of algebra and statistics. Upon completion, students should be able to perform basic computations and solve relevant, multi-step mathematical problems using technology where appropriate. (F., Sp., S.)

MAT 070 Introductory Algebra 3 2 0 4

Prerequisite: *MAT 060 or MAT 061(C or better) or appropriate scores on placement tests*

Corequisite: *RED 080*

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. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

MAT 080 Intermediate Algebra 3 2 0 4

Prerequisite: *MAT 070 or MAT 071 or MAT 090 (C or better) or appropriate scores on placement tests*
 Corequisite: *RED 080*

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. (F., Sp., S.)

MAT 101 Applied Mathematics I 2 2 0 3

Prerequisite: *MAT 060 or DMA 010-030 or appropriate scores on placement tests*
 Corequisite: *None*

This course is a comprehensive review of arithmetic with basic algebra designed to meet the needs of certificate and diploma programs. Topics include arithmetic and geometric skills used in measurement, ratio and proportion, exponents and roots, applications of percent, linear equations, formulas, and statistics. Upon completion, students should be able to solve practical problems in their specific areas of study. (F., Sp.)

MAT 110 Mathematical Measurement 2 2 0 3

Prerequisite: *MAT 060 and MAT 070 or DMA 010, 120, 130 or appropriate scores on placement tests*
 Corequisite: *None*

This course provides an activity-based approach to utilizing, interpreting, and communicating data in a variety of measurement systems. Topics include accuracy, precision, conversion, and estimation within metric, apothecary, and avoirdupois systems; ratio and proportion; measures of central tendency and dispersion; and charting of data. Upon completion, students should be able to apply proper techniques to gathering, recording, manipulating, analyzing, and communicating data. (F., Sp., S.)

MAT 115 Mathematical Models 2 2 0 3

Prerequisite: *MAT 070 or MAT 060* Corequisite: *None and DMA 040, 050, or DMA 010-050 or appropriate scores on placement tests*

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, functional 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. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

MAT 120 Geometry and Trigonometry 2 2 0 3

Prerequisite: *MAT 070 or MAT 060* Corequisite: *None and DMA 040, 050, or DMA 010-050 or appropriate scores on placement tests*

This course introduces the concepts of plane trigonometry and geometry with emphasis on applications to problem solving. Topics include the basic definitions and properties of plane and solid geometry, area and volume, right triangle trigonometry, and oblique triangles. Upon completion, students should be able to solve applied problems both independently and collaboratively using technology. (On Demand)

MAT 121 Algebra/Trigonometry I 2 2 0 3

Prerequisite: *MAT 070 or MAT 060* Corequisite: *None and DMA 040, 050, or DMA 010-050 or appropriate scores on placement tests*

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. (Sp., On Demand)

MAT 122 Algebra/Trigonometry II 2 2 0 3

Prerequisite: *MAT 121* Corequisite: *None*

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. (F., On Demand)

MAT 140 Survey of Mathematics 3 0 0 3

Prerequisite: *MAT 070 or MAT 060* Corequisite: *None and DMA 040, 050, or DMA 010-050 or appropriate scores on placement tests*

This course provides an introduction in a non-technical setting to selected topics in mathematics. Topics 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

MAT 141 Mathematical Concepts I 3 0 0 3

Prerequisite: *MAT 070 or MAT 060* Corequisite: *None and DMA 040, 050, or DMA 010-050 or appropriate scores on placement tests*

This course is the first of a two course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on sets, logic, number bases, elementary number theory, introductory algebra, measurement including metrics, and problem solving. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirements in natural sciences/mathematics.* (On Demand)

MAT 151 Statistics I 3 0 0 3

Prerequisite: *MAT 070 or MAT 060* Corequisite: *None and DMA 040, 050, or DMA 010-050 or appropriate scores on placement tests*

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics (Quantitative Option). This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

MAT 155 Statistical Analysis 3 0 0 3

Prerequisite: *MAT 080 or MAT 081 or MAT 090 (C or better) or appropriate scores on placement tests*

Corequisite: *None*

This course is an introduction to descriptive and inferential statistics. Topics include sampling, distributions, plotting data, central tendency, dispersion, Central Limits Theorem, confidence intervals, hypotheses testing, correlations, regressions, and multinomial experiments. Upon completion, students should be able to describe data and test inferences about populations using sample data. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics (Quantitative Option).* (This course is offered at Pitt Community College.) (Sp.)

MAT 161 College Algebra 3 2 0 3

Prerequisite: *MAT 080 or MAT 070 and DMA 060, 070, 080 or MAT 060 and DMA 040-080 or DMA 010-080 (C or better) or appropriate scores on placement tests*

Corequisite: *None*

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics for Associate in Arts degrees. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

MAT 161A College Algebra Lab 0 2 0 1

Prerequisite: *MAT 080 or MAT 070 and DMA 060, 070, 080 or MAT 060 and DMA 040-080 or DMA 010-080 (C or better) or appropriate scores on placement tests*

Corequisite: *MAT 161*

This course is a laboratory for MAT 161. 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 premajor and/or elective course requirement. (On Demand)

MAT 171 Precalculus Algebra 3 0 0 3

Prerequisite: *MAT 080 or MAT 070 and DMA 060, 070, 080 or MAT 060 and DMA 040-080 or DMA 010-080 (C or better) or appropriate scores on placement tests (Students taking MAT 171 must take MAT 172 for precalculus credit)*

Corequisite: *None*

This is the first of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on equations

and inequalities, functions (linear, polynomial, rational), systems of equations and inequalities, and parametric equations. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and predictions. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (F., Sp.)

MAT 171A Precalculus Algebra Lab 0 2 0 1

Prerequisite: *MAT 080 or MAT 070 and DMA 060, 070, 080 or MAT 060 and DMA 040-080 or DMA 010-080*

Corequisite: *MAT 171*

This is course a laboratory for MAT 171. 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 premajor and/or elective course requirement.* (On Demand)

MAT 172 Precalculus Trigonometry 3 0 0 3

Prerequisite: *MAT 171 (C or better)* Corequisite: *None or appropriate scores on placement tests*

This is the second of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on properties and applications of transcendental functions and their graphs, right and oblique triangle trigonometry, conic sections, vectors, and polar coordinates. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (F., Sp.)

MAT 172A Precalculus Trig Lab 0 2 0 1

Prerequisite: *MAT 171* Corequisite: *MAT 172*

This is course a laboratory for MAT 172. 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 premajor and/or elective course requirement.* (On Demand)

MAT 263 Brief Calculus 3 0 0 3

Prerequisite: *MAT 161 or MAT 171* Corequisite: *None (C or better) or appropriate scores on placement tests*

This course is designed for students needing only one semester of calculus. Topics include functions, graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (F., On Demand)

MAT 271 Calculus I 3 2 0 4

Prerequisite: *MAT 172 (C or better)* Corequisite: *None or appropriate scores on placement tests*

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (F., Sp.)

MAT 272 Calculus II 3 2 0 4

Prerequisite: *MAT 271 (C or better)* Corequisite: *None*

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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (F., Sp.)

MAT 273 Calculus III 3 2 0 4

Prerequisite: *MAT 272 (C or better)* Corequisite: *None*

This course covers the calculus of several variables and is 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* (F.)

MAT 285 Differential Equations 3 0 0 3

Prerequisite: *MAT 272 (C or better)* Corequisite: *None*

This course provides an introduction to ordinary differential equations with an emphasis on applications. Topics include first-order, linear higher-order, and systems of differential equations; numerical methods; series solutions; eigenvalues and eigenvectors; Laplace transforms; and Fourier series. Upon completion, students should be able to use differential equations to model physical phenomena, solve the equations, and use the solutions to analyze the phenomena. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (Sp.)

MEC - Mechanical

MEC 111 Machine Processes I 1 4 0 3

Prerequisite: *None* Corequisite: *None*

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. (Sp.)

MEC 231 Comp-Aided Manufact I 1 4 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces computer-aided design/manufacturing (CAD/CAM) applications and concepts. Topics include software, programming, data transfer and verification, and equipment setup. Upon completion, students should be able to produce parts using CAD/CAM applications. (F.)

MEC 232 Comp-Aided Manufact II 1 4 0 3

Prerequisite: *MEC 231* Corequisite: *None*

This course provides an in-depth study of CAM applications and concepts. Emphasis is placed on the manufacturing of complex parts using computer-aided manufacturing software. Upon completion, students should be able to manufacture complex parts using CAM software. (Sp.)

MEC 250 Statics & Strength of Mat 4 3 0 5

Prerequisite: *MAT 122* Corequisite: *None*

This course covers the concepts and principles of statics and stress analysis. Topics include systems of forces on structures in equilibrium and analysis of stresses and strains on these components. Upon completion, students should be able to analyze forces and the results of stresses and strains on structural components. (Sp.)

MED - Medical Assisting

MED 110 Orientation to Med Assist 1 0 0 1

Prerequisite: *None* Corequisite: *None*

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting. (F.)

MED 118 Medical Law and Ethics 2 0 0 2

Prerequisite: *None* Corequisite: *None*

This course covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bioethical issues. Emphasis is placed on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services. Upon completion, students should be able to meet the legal and ethical responsibilities of a multi-skilled health professional. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

MED 121 Medical Terminology I 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. *This course is also available through the Virtual Learning Community (VLC).* (F.)

MED 122 Medical Terminology II 3 0 0 3

Prerequisite: *MED 121* Corequisite: *None*

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

MED 130 Admin Office Proc I 1 2 0 2
 Prerequisite: None Corequisite: *None*
 This course introduces medical office administrative procedures. Topics include appointment processing, written and oral communications, medical records, patient orientation, and safety. Upon completion, students should be able to perform basic administrative skills within the medical environment. (Sp.)

MED 131 Admin Office Proc II 1 2 0 2
 Prerequisite: *None* Corequisite: *None*
 This course provides medical office procedures in both economic and management skills. Topics include physical plant maintenance, equipment and supplies, liability coverage, medical economics, and introductory insurance procedures. Upon completion, students should be able to manage the economics of the medical office and supervise personnel. (F.)

MED 134 Medical Transcription 2 2 0 3
 Prerequisite: *MED 121* Corequisite: *None*
 This course provides the basic knowledge, understanding, and skills required to complete medical reports and transcribe medical dictation. Emphasis is placed on correct punctuation, capitalization, and spelling. Upon completion, students should be able to demonstrate competence in medical transcription. (Sp.)

MED 140 Exam Room Procedures I 3 4 0 5
 Prerequisite: *MED 122* Corequisite: *None*
 This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures. (S.)

MED 150 Laboratory Procedures I 3 4 0 5
 Prerequisite: *MED 122* Corequisite: *None*
 This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/skills based on course topics. (S.)

MED 232 Medical Insurance Coding 1 3 0 2
 Prerequisite: *None* Corequisite: *None*
 This course is designed to develop coding skills. Emphasis is placed on advanced diagnostic and procedural coding in the outpatient facility. Upon completion, students should be able to demonstrate proficiency in coding for reimbursement. (Sp., S.)

MED 240 Exam Room Procedures II 3 4 0 5
 Prerequisite: *MED 140* Corequisite: *None*
 This course is designed to expand and build upon skills presented in MED 140. Emphasis is placed on advanced exam room procedures. Upon completion, students should be able to demonstrate enhanced competence in selected exam room procedures. (F.)

MED 250 Laboratory Procedures II 3 4 0 5
 Prerequisite: *MED 150* Corequisite: *None*
 This course is designed to expand and build on skills presented in MED 150. Emphasis is placed on increasing proficiency in laboratory skills

used in the medical setting. Upon completion, students should be able to demonstrate enhanced competence in selected medical laboratory procedures. (F.)

MED 260 MED Clinical Practicum 0 0 15 5
 Prerequisite: *None* Corequisite: *None*
 This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional. (Sp.)

MED 264 Med Assisting Overview 2 0 0 2
 Prerequisite: *None* Corequisite: *MED 260*
 This course provides an overview of the complete medical assisting curriculum. Emphasis is placed on all facets of medical assisting pertinent to administrative, laboratory, and clinical procedures performed in the medical environment. Upon completion, students should be able to demonstrate competence in the areas covered on the national certification examination for medical assistants. (Sp.)

MED 272 Drug Therapy 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office. (F.)

MKT - Marketing & Retailing

MKT 120 Principles of Marketing 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision making. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

MKT 220 Advertising and Sales Promotion 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 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. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

MNT - Maintenance

MNT 110 Intro to Maint Procedures 1 3 0 2
 Prerequisite: *None* Corequisite: *None*
 This course covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures. Upon completion, students should be able to demonstrate knowledge of accepted maintenance procedures and practices according to current industry standards. (S.)

MNT 165 Mechanical Industrial Sys 1 3 0 2Prerequisite: *None*Corequisite: *None*

This course covers mechanical components used in industrial machine operation. Emphasis is placed on mechanical drives, belts, gears, couplings, electrical drives, and other related topics. Upon completion, students should be able to demonstrate an understanding of industrial machines and be able to maintain this equipment. (S.)

MUS - Music**MUS 110 Music Appreciation** 3 0 0 3Prerequisite: *RED 090 or ENG 095*Corequisite: *None*

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

MUS 111 Fundamentals of Music 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course is an introductory course for students with little or no music background. Emphasis is placed on music notation, rhythmic patterns, scales, key signatures, intervals, and chords. Upon completion, students should be able to demonstrate an understanding of the rudiments of music. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp., S.)

MUS 131 Chorus I 0 2 0 1Prerequisite: *None*Corequisite: *None*

This course provides an opportunity to gain experience singing in a chorus. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

**MUS 132 Chorus II** 0 2 0 1Prerequisite: *MUS 131*Corequisite: *None*

This course provides a continuation of studies begun in MUS 131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

MUS 151 Class Music I 0 2 0 1Prerequisite: *None*Corequisite: *None*

This course provides group instruction in skills and techniques of the particular instrument or voice for those with little or no previous experience. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

MUS 152 Class Music II 0 2 0 1Prerequisite: *MUS 151*Corequisite: *None*

This course is a continuation of MUS 151. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

MUS 212 American Musical Theatre 3 0 0 3Prerequisite: *None*Corequisite: *None*

This course covers the origins and development of the musical from *Show Boat* to the present. Emphasis is placed on the investigation of the structure of the musical and its components through listening and analysis. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

MUS 231 Chorus III 0 2 0 1Prerequisite: *MUS 132*Corequisite: *None*

This course is a continuation of MUS 132. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

MUS 232 Chorus IV 0 2 0 1Prerequisite: *MUS 231*Corequisite: *None*

This course is a continuation of MUS 231. Emphasis is placed on vocal techniques and the study of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

MUS 251 Class Music III 0 2 0 1
 Prerequisite: *MUS 152* Corequisite: *None*
 This course is a continuation of MUS 152. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

MUS 252 Class Music IV 0 2 0 1
 Prerequisite: *MUS 251* Corequisite: *None*
 This course is a continuation of MUS 251. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

NET - Networking Technology

NET 125 Networking Basics 1 4 0 3
 Prerequisite: *CIS 070 or CTS 080,* Corequisite: *None*
and RED 080

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. (F., On Demand)

NET 126 Routing Basics 1 4 0 3
 Prerequisite: *NET 125* Corequisite: *None*

This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs. (Sp.)

NET 225 Routing and Switching I 1 4 0 3
 Prerequisite: *NET 126* Corequisite: *None*

This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in pre-requisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP. (F.)

NET 226 Adv. Routing and Switching II 1 4 0 3
 Prerequisite: *NET 225* Corequisite: *None*

This course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should

be able to provide solutions for network routing problems, identify ISDN protocols, channels, and function groups, describe the Spanning Tree protocol. (Sp., On Demand)

NET 289 Networking Project 1 4 0 3
 Prerequisite: *None* Corequisite: *NET 226*

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. (Sp.)

NOS - Network Operating Systems

NOS 110 Operating System Concepts 2 3 0 3
 Prerequisite: *CIS 070 or CTS 080* Corequisite: *None*
and RED 080

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is placed on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems. (F.)

NOS 120 Linux/UNIX Single User 2 2 0 3
 Prerequisite: *NOS 110* Corequisite: *None*

This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles. (Sp.)

NOS 130 Windows Single User 2 2 0 3
 Prerequisite: *NOS 110* Corequisite: *None*

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and maintaining 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. (Sp.)

NOS 230 Windows Admin I 2 2 0 3
 Prerequisite: *NOS 130* Corequisite: *None*

This course covers the installation and administration of a Windows Server network operating system. Topics include managing and maintaining physical and logical devices, access to resources, the server environment, managing users, computers, and groups, and Managing/Implementing Disaster Recovery. Upon completion, students should be able to manage and maintain a Windows Server environment. (F.)

NOS 231 Windows Admin II 2 2 0 3
 Prerequisite: *NOS 230* Corequisite: *None*

This course covers implementing, managing, and maintaining a Windows Server network infrastructure. Topics include implementing, managing, and maintaining IP addressing, name resolution, network security, routing and remote access, and managing a network infrastructure. Upon completion, students should be able to manage and maintain a Windows Server environment. (Sp.)

NUR - Nursing**NUR 101 Practical Nursing I** 7 6 6 11Prerequisite: *Admission to PN Program* Corequisite: *None*

This course introduces concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, legal/ethical/professional issues, wellness/illness patterns, and basic nursing skills. Upon completion, students should be able to demonstrate beginning understanding of nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. (F.)

NUR 102 Practical Nursing II 8 0 12 12Prerequisite: *NUR 101 and BIO 163* Corequisite: *None*

This course includes more advanced concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, delegation, cost effectiveness, legal/ethical/professional issues, and wellness/illness patterns. Upon completion, students should be able to begin participating in the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. (Sp.)

NUR 103 Practical Nursing III 6 0 12 10Prerequisite: *NUR 102, NUR 117 and PSY 150*Corequisite: *None*

This course focuses on use of nursing/related concepts by practical nurses as providers of care/members of discipline in collaboration with health team members. Emphasis is placed on the nursing process, wellness/illness patterns, entry-level issues, accountability, advocacy, professional development, evolving technology, and changing health care delivery systems. Upon completion, students should be able to use the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. (S.)

NUR 111 Intro to Health Concepts 4 6 6 8Prerequisite: *Admission to ADN Program* Corequisite: *None*

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (F.)

NUR 112 Health-Illness Concepts 3 0 6 5Prerequisites: *NUR 111, NUR 117,* Corequisites: *None and BIO 168*

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (Sp.)

NUR 113 Family Health Concepts 3 0 6 5Prerequisites: *NUR 111, NUR 114* Corequisites: *None and PSY 241*

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (F.)

NUR 114 Holistic Health Concepts 3 0 6 5Prerequisites: *NUR 111, NUR 211* Corequisites: *None BIO 169, and PSY 150*

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (S.)

NUR 117 Pharmacology 1 3 0 2Prerequisite: *Admission to ADN* Corequisite: *None or PN Program or Instructor Permission*

This course introduces information concerning sources, effects, legalities, and the safe use of medications as therapeutic agents. Emphasis is placed on nursing responsibility, accountability, Pharmacokinetics, routes of medication administration, contraindications and side effects. Upon completion, students should be able to compute dosages and administer medication safely. (F., Sp.)

NUR 211 Health Care Concepts 3 0 6 5Prerequisite: *NUR 111, NUR 112,* Corequisite: *None NUR 117, and BIO 168*

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (Sp.)

NUR 212 Health System Concepts 3 0 6 5Prerequisites: *NUR 111, and NUR 113* Corequisites: *None*

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (F.)

NUR 213 Complex Health Concepts 4 3 15 10Prerequisites: *NUR 111, NUR 117, and BIO 175*Corequisites: *NUR 112, NUR 113, NUR 114, NUR 211, NUR 212*

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care. (Sp.)

NUR 214 Nsg Transition Concepts 3 0 3 4Prerequisites: *Unencumbered license* Corequisites: *None to practice as an LPN in N.C. and BIO 168*

This course is designed to introduce concepts within the three domains of the individual, healthcare, and nursing as the LPN transitions to the ADN role. Emphasis is placed on the concepts within each domain including evidenced-based practice, quality improvement, communication, safety, interdisciplinary team, clinical decision-making, informatics, assessment, caring, and health-wellness-illness. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. (On Demand)

OMT - Operations Management**OMT 110 Intro to Operations Mgt** 3 0 0 3Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

This course provides an overview of the operations management field. Topics include production and operations planning, materials management, environmental health and safety, and quality management. Upon completion, students should be able to demonstrate an understanding of the operations management functions. (F.)

OMT 112 Material Management 3 0 0 3Prerequisite: *None* Corequisite: *None*

This course covers the basic principles of materials management. Emphasis is placed on the planning, procurement, movement, and storage of materials. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques related to materials management. *This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.* (Sp.)

OMT 135 FDA GMP Compliance 3 0 0 3Prerequisite: *None* Corequisite: *None*

This course covers the current version of the Food and Drug Administration's Good Management Practices. Emphasis is placed on how and why medical equipment and pharmaceutical manufacturers should comply with these standards. Upon completion, students should be able to understand and implement good management practices in a facility to comply with the FDA standards. (F.)

OMT 156 Problem-Solving Skills 3 0 0 3Prerequisites: *None* Corequisites: *None*

This course provides a foundation for creating constructive relationships and presents the processes behind problem solving for groups and individuals. Emphasis is placed on building constructive relationships, confronting issues, winning support, and the basic processes of problem solving. Upon completion, students should be able to enhance

relationships with others and apply a systematic approach to problem solving. (F.)

OMT 218 Dev Team Performance 3 0 0 3Prerequisites: *None* Corequisites: *None*

This course provides a foundation for enhancing team effectiveness and performance. Topics include clarification of team responsibilities, techniques for keeping the team on course, being a team player, and playing a vital role in team decisions. Upon completion, students should be able to understand the advantage of teamwork in a workplace environment and understand their role in being an effective team member. (F.)

OMT 222 Project Management 3 0 0 3Prerequisites: *None* Corequisites: *None*

This course covers fundamental concepts associated with multi-task management and coordination. Topics include flow diagrams, process and operations charts, network scheduling, Gantt charts, and PERT and Critical Path Methods as tools in project management. Upon completion, students should be able to understand and apply project management tools and methods. (Sp.)

OMT 260 Issues in Operations Mgt 3 0 0 3Prerequisite: *ISC 121, ISC 210, OMT 112, and ISC 130, ISC 131, ISC 132, or ISC 221* Corequisite: *None*

This course presents a variety of topics that highlight contemporary problems and issues related to operations management. Emphasis is placed on production and operations planning, environmental health and safety, materials management, and quality systems. Upon completion, students should be able to demonstrate the ability to make decisions and resolve problems in an operations management environment. *This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.* (Sp.)

OST - Office Systems Technology**OST 131 Keyboarding** 1 2 0 2Prerequisite: *None* Corequisite: *None*

This course covers basic keyboarding skills. Emphasis is placed on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at an acceptable speed and accuracy level using the touch system. (Sp.)

OST 132 Keyboard Skill Building 1 2 0 2Prerequisite: *None* Corequisite: *None*

This course is designed to increase speed and improve accuracy in keyboarding. 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. (F.)

OST 134 Text Entry & Formatting 2 2 0 3Prerequisite: *None* Corequisite: *None*

This course is designed to provide skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate with employability. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

OST 136 Word Processing

2 2 0 3

Prerequisite: *None*Corequisite: *None*

This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

OST 137 Office Software Applicat

2 2 0 3

Prerequisite: *CIS 110*Corequisite: *None*

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. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

OST 148 Med Coding Billing & Insu

3 0 0 3

Prerequisite: *None*Corequisite: *None*

This course introduces fundamentals of medical coding, billing, and insurance. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

OST 149 Med Legal Issues

3 0 0 3

Prerequisite: *None*Corequisite: *None*

This course introduces the complex legal, moral, and ethical issues involved in providing health-care services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior. (F.)

OST 153 Office Finance Solutions

1 2 0 2

Prerequisite: *None*Corequisite: *None*

This course introduces basic bookkeeping concepts. Topics include entering data in accounts payable and receivable, keeping petty cash records, maintaining inventory, reconciling bank statements, running payroll, and generating simple financial reports. Upon completion, students should be able to demonstrate competence in the entry and manipulation of data to provide financial solutions for the office. (F.)

OST 164 Text Editing Applications

3 0 0 3

Prerequisite: *ENG 080 (C or better)*Corequisite: *None*

This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text. *This course is also available through the Virtual Learning Community (VLC).* (F.)

OST 181 Intro to Office Systems

2 2 0 3

Prerequisite: *None*Corequisite: *None*

This course introduces the skills and abilities needed in today's office. Topics include effectively interacting with co-workers and the public, processing simple financial and informational documents, and performing functions typical of today's offices. Upon completion,

students should be able to display skills and decision-making abilities essential for functioning in the total office context. (F.)

OST 184 Records Management

2 2 0 3

Prerequisite: *None*Corequisite: *None*

This course includes the creation, maintenance, protection, security, and disposition of records stored in a variety of media forms. Topics include alphabetic, geographic, subject, and numeric filing methods. Upon completion, students should be able to set up and maintain a records management system. *This course is also available through the Virtual Learning Community (VLC).* (Sp.)

OST 236 Adv Word/Information Proc

2 2 0 3

Prerequisite: *OST 136*Corequisite: *None*

This course develops proficiency in the utilization of advanced word/information processing functions. Emphasis is placed on advanced word processing features. Upon completion, students should be able to produce a variety of complex business documents. *This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

OST 241 Med Ofc Transcription I

1 2 0 2

Prerequisite: *MED 121 or OST 141*Corequisite: *None**and OST 164 (C or better)*

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. (Sp.)

OST 242 Med Ofc Transcription II

1 2 0 2

Prerequisite: *OST 241*Corequisite: *None*

This course continues building transcription techniques as applied to medical documents. Emphasis is placed on accurate transcription and text editing, efficient use of reference materials, increasing transcription speed and accuracy, and improving understanding of medical terminology. Upon completion, students should be able to display competency in accurately transcribing medical documents. (S.)

OST 243 Med Office Simulation

2 2 0 3

Prerequisite: *OST 148*Corequisite: *None*

This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, storing and retrieving information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections. (F., Sp.)

OST 247 CPT Procedure Coding

1 2 0 2

Prerequisite: *MED 121*Corequisite: *None*

This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS rules for Medicare billing. Upon completion, students should be able to properly code procedures and services performed by physicians in a.m.bulatory settings. (Sp.)

OST 248 Diagnostic Coding

1 2 0 2

Prerequisite: *MED 121*Corequisite: *None*

This course provides an in-depth study of diagnostic coding. Emphasis is placed on ICD Coding System. Upon completion, students should be able to apply the principles of diagnostic coding in the physician's office. (Sp.)

OST 249 CPC Certification 3 2 0 4
 Prerequisite: *OST 247 and OST 248* Corequisite: *None*
 This course provides instruction that will prepare students to sit for the American Association of Professional Coders (AAPC) CPC Exam. Topics include diagnostic and procedural coding. Upon completion, students should be able to sit for the AAPC CPC Exam. (F.)

OST 284 Emerging Technologies 1 2 0 2
 Prerequisite: *None* Corequisite: *None*
 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. (Sp.)

OST 286 Professional Development 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 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. (F.)

OST 289 Admin Office Management 2 2 0 3
 Prerequisite: *OST 164 and either OST 134 or OST 136* Corequisite: *None*
 This course is designed to be a capstone course for the office professional and provides a working knowledge of modern office procedures. Emphasis is placed on scheduling, telephone procedures, travel arrangements, event planning, office design, and ergonomics. Upon completion, students should be able to adapt in an office environment. (F., Sp.)

PBT - Phlebotomy

PBT 100 Phlebotomy Technology 5 2 0 6
 Prerequisite: *None* Corequisite: *PBT 101*
 This course provides instruction in the skills needed for the proper collection of blood and other specimens used for diagnostic testing. Emphasis is placed on ethics, legalities, medical terminology, safety and universal precautions, health care delivery systems, patient relations, anatomy and physiology, and specimen collection. Upon completion, students should be able to demonstrate competence in the theoretical comprehension of phlebotomy techniques. (Sp.)

PBT 101 Phlebotomy Practicum 0 0 9 3
 Prerequisite: *None* Corequisite: *PBT 100*
 This course provides supervised experience in the performance of venipuncture and microcollection techniques in a clinical facility. Emphasis is placed on patient interaction and application of universal precautions, proper collection techniques, special procedures, specimen handling, and data management. Upon completion, students should be able to safely perform procedures necessary for specimen collections on patients in various health care settings. (Sp.)

PCI - Process Control Instrumentation

PCI 162 Instrumentation Controls 2 3 0 3
 Prerequisite: *ELC 131* Corequisite: *None*
 This course surveys industrial process control instrumentation concepts, devices, and systems. Topics include process control devices and process control applications associated with industrial instrumentation. Upon completion, students should be able to demonstrate a basic understanding of the various industrial process control and instrumentation systems. (S.)

PCI 264 Process Control with PLCs 3 3 0 4
 Prerequisite: *None* Corequisite: *None*
 This course introduces automatic process control implemented with PLC technology. Topics include interfacing and controlling advanced control loops and devices using various PLC-based systems. Upon completion, students should be able to demonstrate an understanding of advanced applications of process control and instrumentation systems with PLC-based devices. (Sp.)

PED - Physical Education

PED 110 Fit and Well for Life 1 2 0 2
 Prerequisite: *None* Corequisite: *None*
 This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp.)

PED 113 Aerobics I 0 3 0 1
 Prerequisite: *None* Corequisite: *None*
 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.* (On Demand)

PED 117 Weight Training I 0 3 0 1
 Prerequisite: *None* Corequisite: *None*
 This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

PED 120 Walking for Fitness 0 3 0 1
 Prerequisite: *None* Corequisite: *None*
 This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program. *This course has been*

approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. (On Demand)

PED 121 Walk, Jog, Run 0 3 0 1
Prerequisite: *None* Corequisite: *None*

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.* (On Demand)

PED 122 Yoga I 0 2 0 1
Prerequisite: *None* Corequisite: *None*

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 for transfer under the CAA as a pre-major and/or elective course requirement. (On Demand)

PED 128 Golf-Beginning 0 2 0 1
Prerequisite: *None* Corequisite: *None*

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.* (On Demand)

PED 130 Tennis-Beginning 0 2 0 1
Prerequisite: *None* Corequisite: *None*

This course emphasizes the fundamentals of tennis. Topics include basic strokes, rules, etiquette, and court play. Upon completion, students should be able to play recreational tennis. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

PED 131 Tennis-Intermediate 0 2 0 1
Prerequisite: *PED 130* Corequisite: *None*

This course emphasizes the refinement of playing skills. Topics include continuing the development of fundamentals, learning advanced serves, and strokes and pace and strategies in singles and doubles play. Upon completion, students should be able to play competitive tennis. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

PED 132 Racquetball-Beginning 0 2 0 1
Prerequisite: *None* Corequisite: *None*

This course introduces the fundamentals of racquetball. Emphasis is placed on rules, fundamentals, and strategies of beginning racquetball. Upon completion, students should be able to play recreational racquetball. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)



PED 139 Bowling-Beginning 0 2 0 1
Prerequisite: *None* Corequisite: *None*

This course introduces the fundamentals of bowling. Emphasis is placed on ball selection, grips, stance, and delivery along with rules and etiquette. Upon completion, students should be able to participate in recreational bowling. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

PED 148 Softball 0 2 0 1
Prerequisite: *None* Corequisite: *None*

This course introduces the fundamental skills and rules of softball. Emphasis is placed on proper techniques and strategies for playing softball. Upon completion, students should be able to participate in recreational softball. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

PED 152 Swimming-Beginning 0 2 0 1
Prerequisite: *None* Corequisite: *None*

This course is designed for non-swimmers and beginners. Emphasis is placed on developing confidence in the water, learning water safety, acquiring skills in floating, and learning elementary strokes. Upon completion, students should be able to demonstrate safety skills and be able to tread water, back float, and use the crawl stroke for 20 yards. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

PHI - Philosophy

PHI 215 Philosophical Issues 3 0 0 3
Prerequisite: *ENG 111* Corequisite: *None*

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determination and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critique the philosophical components of an issue. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

PHI 240 Introduction to Ethics 3 0 0 3Prerequisite: *ENG 111*Corequisite: *None*

This course introduces theories about the nature and foundations of moral judgements 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. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

PHM - Pharmacy**PHM 110 Introduction to Pharmacy** 3 0 0 3Prerequisite: *Admission to the Program*Corequisite: *PHM 111, PHM 115, and BIO 163*

This course introduces pharmacy practice and the technician's role in a variety of pharmacy settings. Topics include medical terminology and abbreviations, drug delivery systems, law and ethics, prescription and medication orders, and the health care system. Upon completion, students should be able to explain the role of pharmacy technicians, read and interpret drug orders, describe quality assurance, and utilize pharmacy references. (F)

PHM 111 Pharmacy Practice I 3 3 0 4Prerequisites: *Admission to the Program*Corequisites: *PHM 110, PHM 115*

This course provides instruction in the technical procedures for preparing and dispensing drugs in the hospital and retail settings under supervision of a registered pharmacist. Topics include drug packaging and labeling, out-patient dispensing, hospital dispensing procedures, controlled substance procedures, inventory control, and non-sterile compounding. Upon completion, students should be able to perform basic supervised dispensing techniques in a variety of pharmacy settings. (F)

PHM 115 Pharmacy Calculations 3 0 0 3Prerequisites: *Admission to the Program*Corequisites: *PHM 110, PHM 111*

This course provides an introduction to the metric, avoirdupois, and apothecary systems of measurement and the calculations used in pharmacy practice. Topics include ratio and proportion, dosage determinations, percentage preparations, reducing and enlarging formulas, dilution and concentration, aliquots, specific gravity and density, and flow rates. Upon completion, students should be able to correctly perform calculations required to properly prepare a medication order. (F.)

PHM 118 Sterile Products 3 3 0 4Prerequisites: *PHM 110 and PHM 111* Corequisites: *PHM 135*

This course provides an introduction to intravenous admixture preparation and other sterile products, including total parenteral nutrition and chemotherapy. Topics include aseptic techniques; facilities, equipment, and supplies utilized in admixture preparation; incompatibility and stability; laminar flow hoods; immunizations and irrigation solutions; and quality assurance. Upon completion, students should be able to describe and demonstrate the steps involved in preparation of intermittent and continuous infusions, total parenteral nutrition, and chemotherapy. (Sp.)

PHM 120 Pharmacology I 3 0 0 3Prerequisites: *PHM 110, PHM 111*Corequisites: *None*

This course introduces the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include nutritional products, blood modifiers, hormones, diuretics, cardiovascular agents, respiratory drugs, and gastrointestinal agents. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names. (Sp.)

PHM 125 Pharmacology II 3 0 0 3Prerequisites: *PHM 120*Corequisites: *None*

This course provides a continuation of the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include autonomic and central nervous system agents, anti-inflammatory agents, and anti-infective drugs. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names. (S.)

PHM 132 Pharmacy Clinical 0 0 6 2Prerequisites: *PHM 110, PHM 111*Corequisites: *None*

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers. (S.)

PHM 135 Pharmacy Clinical 0 0 15 5Prerequisites: *PHM 110, PHM 111*Corequisites: *PHM 118*

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is placed on effective communication with personnel, developing proper employee attitude, and dispensing of medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and efficiently operate computers. (Sp)

PHM 140 Trends in Pharmacy 2 0 0 2Prerequisites: *PHM 110, PHM 111*Corequisites: *None*

This course covers the major issues, trends, and concepts in contemporary pharmacy practice. Topics include professional ethics, continuing education, job placement, and the latest developments in pharmacy technician practice. Upon completion, students should be able to demonstrate a basic knowledge of the topics discussed. (S)

PHM 165 Pharmacy Prof Practice 2 0 0 2Prerequisites: *PHM 110, PHM 111*Corequisites: *None*

This course provides a general overview of all aspects of pharmacy technician practice. Emphasis is placed on pharmacy law, calculations, compounding, pharmacology, and pharmacy operations. Upon completion, students should be able to demonstrate competence in the areas required for the Pharmacy Technician Certification Examination. (Sp.)

PHY - Physics

PHY 131 Physics-Mechanics 3 2 0 4
Prerequisite: *MAT 121 or MAT 161* Corequisite: *None*
and *RED 090 or RED 091 or ENG 095*

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. (On Demand)

PHY 151 College Physics I 3 2 0 4
Prerequisite: *MAT 161 or MAT 171* Corequisite: *None*
and *RED 090 or ENG 095*

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.* (F., On Demand)

PHY 152 College Physics II 3 2 0 4
Prerequisite: *PHY 151* Corequisite: *None*

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.* (Sp., On Demand)

PHY 251 General Physics I 3 3 0 4
Prerequisite: *MAT 271 and RED 090* Corequisite: *MAT 272*
or *ENG 095*

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.* (F.)

PHY 252 General Physics II 3 3 0 4
Prerequisite: *MAT 272 and PHY 251* Corequisite: *None*

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.* (Sp.)

PLU - Plumbing

PLU 140 Intro to Plumbing 1 2 0 2
Prerequisite: *None* Corequisite: *None*

This course covers plumbing industry codes and regulations. Emphasis is placed on North Carolina regulations and the minimum requirements for plumbing materials and design. Upon completion, students should be able to research and interpret North Carolina plumbing codes. (On Demand)

POL - Political Science

POL 120 American Government 3 0 0 3
Prerequisite: *RED 090 or ENG 095* Corequisite: *None*

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 is also available through the Virtual Learning Community (VLC).* (On Demand)

POL 130 State & Local Government 3 0 0 3
Prerequisite: *None* Corequisite: *None*

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.* (On Demand)

PSY - Psychology

PSY 101 Applied Psychology 3 0 0 3
Prerequisite: *None* Corequisite: *None*

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. (On Demand)

PSY 141 Psych of Death and Dying 3 0 0 3
Prerequisite: *None* Corequisite: *None*

This course presents psychological perspectives on death and dying. Topics include the culturally diverse aspects of death and the grieving process, adjustment mechanisms, interventions, and the psychological and ethical dimensions of death and dying. Upon completion, students should be able to demonstrate an understanding of the psychosocial aspects of death and dying. (F.)

PSY 150 General Psychology 3 0 0 3
 Prerequisite: *RED 090 or ENG 095* Corequisite: *None*
 This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

PSY 183 Psychology of Addiction 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 This course covers historical and theoretical perspectives on addictive behavior and the genetic, familial, and sociocultural influences on addiction. Topics include addictions to eating, gambling, alcohol, drugs, relationships, work, and sex. Upon completion, students should be able to demonstrate a knowledge of the theories of addiction and the factors underlying addictive behaviors. (Sp.)

PSY 237 Social Psychology 3 0 0 3
 Prerequisite: *PSY 150 or SOC 210* Corequisite: *None*
 This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.* (On Demand)

PSY 241 Developmental Psych 3 0 0 3
 Prerequisite: *PSY 150* Corequisite: *None*
 This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (F., Sp.)

PSY 263 Educational Psychology 3 0 0 3
 Prerequisite: *PSY 150* Corequisite: *None*
 This course examines the application of psychological theories and principles to the educational process and setting. Topics include learning and cognitive theories, achievement motivation, teaching and learning styles, teacher and learner roles, assessment, and developmental issues. Upon completion, students should be able to demonstrate an understanding of the application of psychological theory to educational practice. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F.)

PSY 265 Behavioral Modification 3 0 0 3
 Prerequisite: *PSY 150* Corequisite: *None*
 This course is an applied study of factors influencing human behavior and strategies for behavioral change. Emphasis is placed on cognitive-behavioral theory, behavioral assessment, practical applications of

conditioning techniques, and maintenance of adaptive behavior patterns. Upon completion, students should be able to implement basic learning principles to effect behavioral changes in self and others. (Sp.)

PSY 281 Abnormal Psychology 3 0 0 3
 Prerequisite: *PSY 150* Corequisite: *None*
 This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).* (S.)

RED - Reading

RED 080 Intro to College Reading 3 2 0 4
 Prerequisite: *Appropriate score on placement test (AR = 35 or below, COMPASS = 60 or below)*
 Corequisite: *None*

This course introduces effective reading and inferential thinking skills in preparation for RED 090. Emphasis is placed on vocabulary, comprehension, and reading strategies. Upon completion, students should be able to determine main ideas and supporting details, recognize basic patterns of organization, draw conclusions, and understand vocabulary in context. Students scoring into RED 080 must also complete ACA 090 College Study Skills before registering for ENG 111, Expository Writing. (F., Sp., S.)

RED 090 Improved College Reading 3 2 0 4
 Prerequisite: *RED 080 or RED 081 or ENG 085 or appropriate score on placement test (AR = 36-41, COMPASS = 61-79)*
 Corequisite: *None*

This course is designed to improve reading and critical thinking skills. Topics include vocabulary enhancement; extracting implied meaning; analyzing author's purpose, tone, and style; and drawing conclusions and responding to written material. Upon completion, students should be able to comprehend and analyze college-level reading material. (F., Sp., S.)

REL - Religion

REL 110 World Religions 3 0 0 3
 Prerequisite: *None* Corequisite: *None*

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 is available through the Virtual Learning Community (VLC).* (On Demand)

REL 211 Intro to Old Testament 3 0 0 3
 Prerequisite: *None* Corequisite: *None*

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.* (F., S.)

REL 212 Intro to New Testament 3 0 0 3

Prerequisite: *None* Corequisite: *None*

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.* (F., Sp.)

REL 221 Religion in America 3 0 0 3

Prerequisite: *None* Corequisite: *None*

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 a.m.erica. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

SAB - Substance Abuse

SAB 110 Substance Abuse Overview 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course provides an overview of the core concepts in substance abuse and dependence. Topics include the history of drug use/abuse, effects on societal members, treatment of addiction, and preventative measures. Upon completion, students should be able to demonstrate knowledge of the etiology of drug abuse, addiction, prevention, and treatment. (F., or On Demand)

SAB 120 Intake and Assessment 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course develops processes for establishment of client rapport, elicitation of client information on which therapeutic activities are based, and stimulation of client introspection. Topics include diagnostic criteria, functions of counseling, nonverbal behavior, collaterals and significant others, dual diagnosis, client strengths and weakness, uncooperative clients, and crisis interventions. Upon completion, students should be able to establish communication with clients, recognize disorders, obtain information for counseling, and terminate the counseling process. (Sp., or On Demand)

SAB 125 SAB Case Management 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course provides case management activities, including record keeping, recovery issues, community resources, and continuum of care. Emphasis is placed on establishing a systematic approach to monitor the treatment plan and maintain quality of life. Upon completion, students should be able to assist clients in the continuum of care as an ongoing recovery process and develop agency networking. (F., or On Demand)

SAB 135 Addictive Process 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course explores the physical, emotional, psychological, and cultural aspects of the addictive process. Emphasis is placed on addictions to food, sex, alcohol, drugs, work, gambling, and relationships. Upon completion, students should be able to identify the effects, prevention strategies, and treatment methods associated with addictive disorders. (S., or On Demand)

SAB 210 Sub Abuse Counseling 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course provides theory and skills acquisition by utilizing intervention strategies designed to obtain therapeutic information, support recovery, and prevent relapse. Topics include counseling individuals and dysfunctional families, screening instruments, counseling techniques and approaches, recovery and relapse, and special populations. Upon completion, students should be able to discuss issues critical to recovery, identify intervention models, and initiate a procedure culminating in cognitive/behavioral change. (F., or On Demand)

SAB 240 SAB Issues in Client Serv 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces systems of professional standards, values, and issues in substance abuse counseling. Topics include confidentiality, assessment of personal values, professional responsibilities, competencies, and ethics relative to multicultural counseling and research. Upon completion, students should be able to understand and discuss multiple ethical issues applicable to counseling and apply various decision-making models to current issues. (Sp., or On Demand)

SEC - Information Systems Security

SEC 110 Security Concepts 3 0 0 3

Prerequisite: *CIS 070 or CTS 080* Corequisite: *None and RED 090 or ENG 095*

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 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. (F.)

SEC 150 Secure Communications 2 2 0 3

Prerequisite: *SEC 110 and NET 110 or NET 125 and RED 090 or ENG 095* Corequisite: *None*

This course provides an overview of current technologies used to provide secure transport of information across networks. Topics include data integrity through encryption, Virtual Private Networks, SSL, SSH, and IPsec. Upon completion, students should be able to implement secure data transmission technologies. (Sp.)

SGD - Simulation and Game Development

SGD 111 Introduction to SGD 2 3 0 3

Prerequisites: *Computer Skills placement* Corequisite: *None test (78+) or successful completion of CIS 070 or successful completion of CTS 080*

This course provides students with an introduction to simulation and game development. Topics include setting, storytelling, narrative,

character design, interface design, game play, internal economy, core mechanics, game genres, AI, the psychology of game design and professionalism. Upon completion, students should be able to demonstrate knowledge of the major aspects of simulation and game design and development. (F.)

SGD 112 SGD Design 2 3 0 3

Prerequisites: *Computer Skills placement* Corequisite: *None test (78+) or successful completion of CIS 070 or successful completion of CTS 080*

This course introduces the fundamentals of simulation and game design. Topics include industry standards and design elements for simulations and games. Upon completion, students should be able to design simple simulations and/or games. (Sp.)

SGD 113 SGD Programming 2 3 0 3

Prerequisites: *CIS 070 or CTS 080* Corequisite: *None*

This course introduces the fundamentals of programming languages and tools employed in simulation and game development. Emphasis is placed on programming concepts used to create simulations and games. Upon completion, students should be able to program simple games and/or simulations. (Sp.)

SGD 114 3D Modeling 2 3 0 3

Prerequisites: *Computer Skills placement* Corequisite: *None test (78+) or successful completion of CTS 080*

This course introduces the tools required to create three dimensional (3D) models. Emphasis is placed on exploring tools used to create 3D models. Upon completion, students should be able to create and animate 3D models using 3D modeling tools. (Sp.)

SGD 116 Graphic Design Tools 2 2 0 3

Prerequisites: *None* Corequisites: *None*

This course introduces students to computer-based graphic design tools and their use within the context of simulation and game design. Topics include texture creation, map creation, and introduction to advanced level graphic design techniques. Upon completion, students should be able to competently use and explain industry-standard graphic design software. (F.)

SGD 117 Art for Games 2 3 0 3

Prerequisites: *None* Corequisites: *None*

This course introduces students to the basic principles of art and how they apply to simulations and games. Emphasis is placed on learning to develop industry quality concept art for characters and other assets, as well as techniques needed to create such art. Upon completion, students should be able to create their own industry standard concept art for use in SGD projects. (On Demand)

SGD 125 SG Artificial Intellig 2 3 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces the artificial intelligence concepts related to simulation and game development. Emphasis is placed on expert systems. Upon completion, students should be able to describe the basic concepts and procedures related to the development of artificial intelligence systems used in simulation and games. (On Demand)

SGD 134 SG Quality Assurance 2 2 0 3

Prerequisite: *None* Corequisite: *None*

This course provides an introduction to software quality assurance as it relates to simulation and game development. Emphasis is placed on designing testing tools, bug databases, and on learning methodologies



required for systematic, detail-oriented testing procedures for the simulation and game industry. Upon completion, students should be able to demonstrate the proper skills to obtain a job as a quality assurance tester in the simulation/game industry. (F.)

SGD 158 Business Management 3 0 0 3

Prerequisites: *None* Corequisites: *None*

This course introduces the business side of the interactive game industry. Emphasis will be placed on licenses, serious games, psychological profiling, publisher/developer relations, and contract negotiation skills. Upon completion, students should be able to understand how a game evolves from concept to the customer. (F.)

SGD 162 SG 3D Animation 2 3 0 3

Prerequisites: *None* Corequisite: *None*

This course introduces the fundamental principles of 3D animation used in simulation and game development. Emphasis is placed on a historical survey of 3D animation, aspects of the 3D animation techniques. Upon completion, students should be able to produce 3D character sketches, morph simple objects, create walk and run cycles and develop professional storyboards. (On Demand)

SGD 164 SG Audio/Video 2 3 0 3

Prerequisites: *None* Corequisite: *None*

This course introduces various aspects of audio and video and their application in simulations and games. Topics include techniques for producing and editing audio and video for multiple digital mediums. Upon completion, students should be able to produce and edit audio and video for simulations and games. (Sp.)

SGD 168 Mobile SG Programming I 2 3 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces the mobile simulation and game programming process. Topics include mobile simulation/game programming, performance tuning, animation, sound effects, music, and mobile networks. Upon completion, students should be able to apply simulation/game programming concepts to the creation of mobile simulations and games. (On Demand)

SGD 171 Flash SG Programming 2 3 0 3

Prerequisites: *None* Corequisite: *None*

This course introduces the Flash programming environment for use in simulation and game development. Topics include timeline effects, extensibility layers, alias text, globalization tools, ActionScript and lingo programming. Upon completion, students should be able to create a simple simulation or game using Flash. (On Demand)

SGD 172 Virtual SG Environments 2 3 0 3
 Prerequisites: *None* Corequisite: *None*
 This course covers the use of virtual reality tools and techniques in simulation and game development. Emphasis is placed on acquiring the skills necessary to create scalable virtual characters and environments for use in simulations and games. Upon completion, students should be able to create a simple game or simulation in a virtual environment. (Sp.)

SGD 174 SG Level Design 2 3 0 3
 Prerequisites: *None* Corequisite: *None*
 This course introduces the tools used to create levels for real-time simulation and games. Topics include level design, architecture theory, modeling for 3D engines and texturing methods. Upon completion, students should be able to design simple levels using industry standard tools. (F.)

SGD 212 SGD Design II 2 3 0 3
 Prerequisite: *SGD 112* Corequisite: *None*
 This course covers the advanced principles of simulation and game design. Topics include advanced design concepts in simulation and game development. Upon completion, students should be able to design an advanced simulation or game. (F.)

SGD 214 3D Modeling II 2 3 0 3
 Prerequisite: *SGD 114* Corequisite: *None*
 This course introduces the tools used to create and animate advanced 3 dimensional models. Emphasis is placed on identifying and utilizing the tools required to create and animate advanced 3D models. Upon completion, students should be able to create and animate advanced 3D models using 3D modeling tools. (On Demand)

SGD 274 SG Level Design II 2 3 0 3
 Prerequisite: *SGD 174* Corequisite: *None*
 This course introduces the advanced tools used to create levels for real-time simulations and games. Topics include advanced level guide and architecture theory, concepts related to "critical path" and "flow," game balancing, playtesting and storytelling. Upon completion, students should be able to design complex levels using industry standard tools. (On Demand)

SGD 289 SGD 2 3 0 3
 Prerequisite: *SGD 212, Project or SGD 214*
 Corequisite: *None*
 This course provides students with the opportunity to create a functional simulation or game with minimal instructor support. Emphasis is placed upon verbal and written communication, skill documentation, professional presentation and user training. Upon completion, students should be able to create and professionally present a fully functional simulation or game.(Sp.)

SOC - Sociology

SOC 210 Introduction to Sociology 3 0 0 3
 Prerequisite: *RED 090 or ENG 095* Corequisite: *None*
 This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay a.m.ong 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 is also available through the Virtual Learning Community (VLC). (F., Sp., S.)

SOC 213 Sociology of the Family 3 0 0 3
 Prerequisite: *RED 090 or ENG 095* Corequisite: *None*
 This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC). (F., Sp.)*

SOC 220 Social Problems 3 0 0 3
 Prerequisite: *RED 090 or ENG 095* Corequisite: *None*
 This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is available through the Virtual Learning Community (VLC). (F., Sp.)*

SOC 225 Social Diversity 3 0 0 3
 Prerequisite: *RED 090 or ENG 095* Corequisite: *None*
 This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences, evolve and how they affect personality development, values, and tolerance. *This course has been approved to satisfy the Comprehensive Articulation agreement general education core requirement in social/behavioral sciences. (On Demand)*

SOC 230 Race and Ethnic Relations 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 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 a.m.ong 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. (F.)*

SOC 242 Sociology of Deviance 3 0 0 3
 Prerequisite: *None* Corequisite: *None*
 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. (On Demand)

SPA - Spanish

SPA 111 Elementary Spanish I 3 0 0 3

Prerequisite: *None* Corequisite: *SPA 181*

This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).* (F., Sp., S.)

SPA 112 Elementary Spanish II 3 0 0 3

Prerequisite: *SPA 111 (C or better)* Corequisite: *SPA 182*

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (F., Sp., S.)

SPA 120 Spanish for the Workplace 3 0 0 3

Prerequisite: *None* Corequisite: *None*

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. (On Demand)

SPA 181 Spanish Lab 1 0 2 0 1

Prerequisite: *None* Corequisite: *None*

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (F., Sp., S.)

SPA 182 Spanish Lab 2 0 2 0 1

Prerequisite: *SPA 181 (C or better)* Corequisite: *None*

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate cultural awareness. *This course has been approved*

to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. (F., Sp., S.)

SPA 211 Intermediate Spanish I 3 0 0 3

Prerequisite: *SPA 112* Corequisite: *None*

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* (On Demand)

SPA 212 Intermediate Spanish II 3 0 0 3

Prerequisite: *SPA 211* Corequisite: *None*

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.* (On Demand)

SPA 281 Spanish Lab 3 0 2 0 1

Prerequisite: *SPA 182* Corequisite: *None*

This course provides an opportunity to enhance the review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts through the use of various supplementary learning media and materials. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

SPA 282 Spanish Lab 4 0 2 0 1

Prerequisite: *SPA 281* Corequisite: *None*

This course provides an opportunity to enhance the review and expansion of the essential skills of the Spanish language. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts through the use of various supplementary learning media and materials. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* (On Demand)

SST - Sustainability Technologies

SST 110 Intro to Sustainability 3 0 0 3

Prerequisite: *None* Corequisite: *None*

This course introduces sustainability issues and individual contributions toward environmental sustainability. Topics include management processes needed to maximize renewable/non-renewable energy resources, economics of sustainability, and reduction of environmental impacts. Upon completion, students should be able to discuss sustainability practices and demonstrate an understanding of their effectiveness and impacts. (F.)

SST 120 Energy Use Analysis 2 2 0 3Prerequisites: *None*Corequisites: *None*

This course introduces the principles of analyzing energy use, energy auditing tools and techniques, conservation techniques, and calculating energy savings. Topics include building system control theory, calibrating digital controls, energy loss calculations, and applicable conservation techniques. Upon completion, students should be able to demonstrate an understanding of energy use, audits, and controls in the analysis of energy consumption. (Sp.)

SST 130 Modeling Renewable Energy 2 2 0 3Prerequisites: *None*Corequisites: *None*

This course introduces software and other technologies used for modeling renewable energy systems. Topics include renewable energy modeling software applications, data analysis, renewable energy sources, and cost of renewable energy systems. Upon completion, students should be able to use appropriate technology to model the effectiveness of renewable energy systems. (Sp.)

SST 140 Green Building Concepts 1 3 0 2Prerequisites: *None*Corequisites: *None*

This course introduces green building design, LEED® (Leadership in Energy and Environmental Design) and comparable certifications, and their significance in modern building construction. Topics include LEED certification or similar rating systems, energy efficiency, indoor environmental quality, and sustainable building materials. Upon completion, students should be able to incorporate ecological awareness and sustainable principles within the context of design and construction. (Sp.)

SST 210 Issues in Sustainability 3 0 0 3Prerequisites: *SST 110*Corequisites: *None*

This course introduces the long-term impacts and difficulties of applying sustainability concepts in an organization, business, or society. Topics include the application of sustainable technologies and the analysis of affordability, efficiencies, recycling, and small and large-scale design. Upon completion, students should be able to recognize the possible limitations of sustainable technologies and be prepared to reconcile such conflicts. (On Demand)

TRF - Turfgrass Management**TRF 110 Intro Turfgrass Cult & ID** 3 2 0 4Prerequisite: *None*Corequisite: *None*

This course provides an in-depth study of turfgrass. Topics include principles of reproduction, growth development, species characteristics, establishment and maintenance of golf courses and sports fields, and lawn applications. Upon completion, students should be able to identify turfgrass species through characteristics and reproductive stages and develop an establishment and maintenance plan for high quality turf areas. (F.)

TRF 120 Turfgrass Irrigat & Design 2 4 0 4Prerequisite: *None*Corequisite: *None*

This course covers the basic techniques involved in the design, layout, installation, and use of turfgrass irrigation systems. Topics include types of irrigation systems, components of the systems, materials available for use, and economic considerations. Upon completion, students should be able to complete a functional design for a turfgrass irrigation system. (Sp.)

TRF 152 Landscape Maintenance 2 2 0 3Prerequisites: *None*Corequisite: *None*

This course introduces the tasks of landscape maintenance. Emphasis is placed on lawns, shrubs, trees, flowers, and ground covers. Upon completion, students should be able to maintain a landscape area on a year-round schedule. (F.)

TRF 210 Turfgrass Eqmt Mgmt 1 4 0 3Prerequisite: *None*Corequisite: *None*

This course covers the operation and maintenance of specialized turfgrass management equipment. Topics include small engine use and repair; operation, maintenance, and repair of turfgrass management equipment; organization of shop areas; and safety considerations. Upon completion, students should be able to operate and maintain turfgrass management equipment. (F.)

**TRF 230 Turfgrass Mgmt Apps** 1 2 0 2Prerequisite: *None*Corequisite: *None*

This course introduces specific sports field design, installation, and maintenance. Topics include natural grass croquet courts and baseball, soccer, and football fields. Upon completion, students should be able to perform specific tasks in layout, field marking, and preparing for tournament play. (F.)

TRF 240 Turfgrass Pest Control 2 2 0 3Prerequisite: *None*Corequisite: *None*

This course covers detection and identification of turfgrass pests with emphasis on methods of control or eradication. Topics include weeds, insects, diseases, and nematodes identification with an understanding of pesticides used, application procedures, and costs involved in control programs. Upon completion, students should be able to identify turfgrass pests, select the proper pesticide, develop pest control programs, and/or use integrated pest management. (Sp.)

TRF 260 Adv Turfgrass Mgmt 3 2 0 4Prerequisite: *TRF 110*Corequisite: *None*

This course covers the principles and practices involved in turfgrass management. Topics include choosing the best management practice in mowing, pest control, fertilization, irrigation, traffic control, air control, budgeting, and materials procurement. Upon completion, students should be able to demonstrate knowledge of the principles covered and select and apply the best practices in turfgrass management. (Sp.)

WLD - Welding**WLD 110 Cutting Processes** 1 3 0 2Prerequisite: *None*Corequisite: *None*

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. (F.)

WLD 112 Basic Welding Processes 1 3 0 2Prerequisite: *None*Corequisite: *None*

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. (Sp., F.)

WLD 115 SMAW (Stick) Plate 2 9 0 5Prerequisite: *None*Corequisite: *None*

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. (F.)

WLD 116 SMAW (Stick) Plate/Pipe 1 9 0 4Prerequisite: *WLD 115*Corequisite: *None*

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. (Sp.)

WLD 121 GMAW (MIG) FCAW/Plate 2 6 0 4Prerequisite: *None*Corequisite: *None*

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. (F., Sp.)

WLD 122 GMAW (MIG) Plate/Pipe 1 6 0 3Prerequisite: *WLD 121*Corequisite: *None*

This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with the GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry. (F., Sp.)

WLD 131 GTAW (TIG) Plate 2 6 0 4Prerequisite: *None*Corequisite: *None*

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. (F., Sp.)

WLD 132 GTAW (TIG) Plate/Pipe 1 6 0 3Prerequisite: *WLD 131*Corequisite: *None*

This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry. (On Demand)

WLD 141 Symbols & Specifications 2 2 0 3Prerequisite: *None*Corequisite: *None*

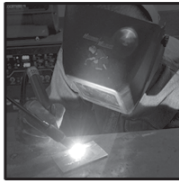
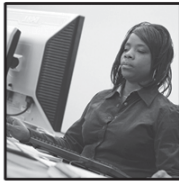
This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding. (Sp., S.)

WLD 212 Inert Gas Welding 1 3 0 2Prerequisite: *None*Corequisite: *None*

This course introduces inert gas-shielded welding methods (MIG/TIG). Topics include correct selection of consumable and non-consumable electrodes, equipment setup, safety, and welding techniques. Upon completion, students should be able to perform inert gas welding in flat, horizontal, and overhead positions. (Sp.)

Notes

WAYNE COMMUNITY COLLEGE



student handbook 2012-13

P.O. Box 8002 • Goldsboro, N.C. 27533-8002 • 919-735-5151

www.waynecc.edu

This catalog/student handbook is current as of June 20, 2012. Check the WCC on-line catalog/student handbook at www.waynecc.edu/catalog-schedules/ for the most up-to-date information.

GENERAL INFORMATION

Academic Skills Center

The Academic Skills Center offers a wide array of educational services for Wayne Community College students. These services include instruction by professional educators in subjects such as reading, English, mathematics, computers, and the sciences. A peer tutoring program is available for students. This program enables them to receive one-on-one assistance from a student who has been referred by WCC faculty. Programs are available for students who need to meet the limited admission requirements. The Center's staff and the Wayne Community College faculty cooperate to provide supplementary materials and instruction to enhance student learning.

Hours of operation are as follows:

Monday-Thursday, 7:45 a.m. to 8:00 p.m.

Friday, 7:45 a.m. to 1:00 p.m.

Hours may vary during Summer Term

The Academic Skills Center is located on the third floor of the Wayne Learning Center, 322B. For more information, call (919)739-6746 or (919)739-6748.

Academic Testing Center

The Academic Testing Center is located in Wayne Learning Center, 218 and is available to students and faculty for proctored tests and make-up tests. Students must present a valid picture I.D. before being allowed to test.

Accident/Illness and Medical Emergencies Procedure

Wayne Community College maintains basic first aid boxes in every building. Anything beyond basic first aid will require outside attention by a medical provider. Under college policy, no medicines will be dispensed by college staff. A limited supply of basic pain relievers, allergy medicines and other over-the-counter items may be found in the Bookstore during normal operating hours for personal purchase. In general, accidents occurring during WCC-sponsored activities will be covered by student and/or college insurance. Personal illnesses may be covered by student insurance or private third party coverage the student may have. The college generally will not be responsible for medical transport or any hospital or medical provider fees for personal illnesses. Should a medical emergency requiring more than basic first aid arise, follow the procedures posted on the Red Emergency Medical cards located throughout the campus.

Do not move injured persons unless

- you are absolutely certain about their condition; or
- the person is in more danger if they remain where they are.

In the event of a seizure, do not restrain the victim. Clear the area around the victim of everything that could be a hazard. If possible, put the victim on their side. Never force the victim's mouth open.

Call EMS immediately at 9-1-1 and then call Campus Police and Security at 919-739-7050 to notify them of the situation, location, and nature of the accident or illness. Campus Police and Security will escort the ambulance to the scene.

All accidents must be reported to the Student Activities Coordinator or to the Evening Coordinator after hours. Accidents involving guests must also be reported to the Business office. It is important that these notifications be made prior to transport if possible so that appropriate insurance documents may be prepared and related agencies notified. Failure to follow procedure could result in claims not being covered.

Bookstore

Wayne Community College maintains a bookstore for the convenience of students. Course supplies and required textbooks, novelties, clothing, electronics, and graduation attire may be purchased in the bookstore. Visit our website at www.wayneccbookstore.com for fast and easy textbook information and ordering. Our hours of operation are Monday and Thursday from 8:30 a.m. to 4:00 p.m., Tuesday and Wednesday from 8:30 a.m. to 6:30 p.m. and Friday from 8:30 a.m. to 1:00 p.m. Summer hours will vary. Our return policy allows a student two days from the purchase date to return textbooks with the original receipt. Books must be in the same condition as purchased and original shrink wrap. Electronics, clothing, and supplies are not refundable. Students may sell books back at any time during the year except at the beginning of each semester while financial aid is open for charging. Let us help you with your textbook needs. Stop by, call (919) 731-2271, or visit our website.

Cafeteria

The WCC Cafeteria is open from 7:30 a.m. until 1:30 p.m. Monday through Thursday and 7:30 a.m. to 1:00 p.m. on Friday. Hours may vary during summer and school breaks. There are a variety of options to choose from including daily specials for Breakfast and Lunch. Lunch options include a hot meal or a sandwich special in addition to salads and a variety of sandwiches and wraps. The Cafeteria offers good, cooked-to-order food at an affordable price. Also, vending machines are placed in various locations across campus.

Campus Cruiser

WCC Campus Cruiser is a Web-based portal that enables WCC to electronically share information, syllabi, campus calendars, student support, registration services, and more.

The portal enables students to access online services such as: WCC e-mail, Campus Announcements and News, Calendars, Class Schedules, GPA, Transcripts, Online Course Searches and Registration, etc. Refer to the College Website at www.waynecc.edu for more information.

Career Services

Career Services offers guidance to students and to the general public through a variety of self-directed, web-based resources designed to assist individuals to make informed decision concerning their education and/or career goals. Topics include but are not limited to the following areas: Resume Writing, Interviewing Strategies, Career Assessment, Career and Major Counseling, Job Applications, Cover Letters, Thank You Letters. Career Services is conveniently located in the Wayne Learning Center, 141. For more information, contact (919) 739-7005.

Child Care Center

Wayne Community College operates a State-licensed child care facility offering full-time care for children ages 6 weeks to 5 years. The WCC Child Care Center is open to the public, but placement preference is given to WCC students, faculty, and staff. The center is open Monday through Friday, 7:00 a.m. to 6:00 p.m. For enrollment information, students should contact the center at (919) 739-6750.

Children on Campus

Children under the age of 18, not enrolled in a WEMCHS or Wayne Community College program are not permitted on campus other than while in the company of a parent or guardian who is conducting business with the College. Children are not allowed in classrooms, laboratories, offices or the student lounge without permission of a college Vice President or the President. Children should not be left unattended in vehicles at any time. The College will not assume responsibility or liability for any minor children. Students bringing minors to class will be asked to leave and will be immediately referred to the Director of Counseling Services.

Programs approved by the College to use facilities will be exempt from this procedure if the children are supervised by designated adults. Campus tours and student groups visiting the College must be accompanied by a college staff member.

College Transfer Advising Center

The College Transfer Advising Center offers students pursuing Associate of Arts, and Associate of Science, and Associate in General Education degrees a central location to seek academic advising. The goal of the Advising Center is to serve, guide, and support students preparing to transfer to a four-year college or preparing to apply for limited admission health science programs. The center is located in the Wayne Learning Center, room 137. For more information, call (919) 739-6755.

Communicable Disease Policy for Students

Wayne Community College is committed to assuring that all necessary training and precautions are taken with regard to communicable diseases. The Biohazard Exposure Control Plan and the Pandemic Preparedness Plan of Wayne Community College reflect our efforts to ensure the good health and safety of all employees and students. The College adopts this communicable disease policy for students in an effort to control communicable diseases and the threat of pandemic influenza on campus based upon established rules and regulations of the N.C. Division of Health Services. Employees and employees of contractors or contracted services infected with a communicable disease have the responsibility of reporting this fact to the Director of Human Resources. Students infected with a communicable disease have the responsibility of reporting this fact to the Director of Counseling Services.

Communicable Disease shall include, but is not limited to: Chickenpox, Infectious Mononucleosis, Conjunctivitis, Hepatitis A, B & D, Acquired Immune Deficiency Syndrome (AIDS), Aids-related complex (ARC), positive HIV antibody status, Influenza, Measles, Meningitis, Tuberculosis, Whooping Cough, and sexually transmitted diseases.(N.C.G.S. 130A)

Persons who are infected with a communicable disease are expected to seek expert medical advice and are encouraged to advise local health authorities. Local health authorities should offer counseling to these persons about measures that can be taken to prevent the spread of infection and to protect their own health.

Students who know, or have a reasonable basis for believing, that they are infected with a communicable disease have an ethical and legal obligation to behave in accordance with such knowledge to protect themselves and others. Students are required to report this information to the Director of Counseling Services. Medical information relating to the communicable disease of a student or employee will be disclosed to responsible college officials only on a strictly limited need-to-know basis. No person, group, agency, insurer, employer, or institution should be provided any medical information without the prior specific

written consent of a student unless required by state and/or federal law. Furthermore, all medical information relating to the communicable diseases of students and employees will be kept confidential, according to state and federal law, including the Family Education Rights and Privacy Act.

If a student reports a communicable disease condition to the Director of Counseling Services, the student may be excluded from the institution until an appropriate evaluation of the student's medical condition can be made. The evaluation may be made by a physician or a health department official and testing may be required if appropriate. Students in any Allied Health program may have additional requirements, as specified in each program's student handbook; therefore, these students should report any suspected communicable disease to the Director of Counseling Services.

The final determination of student's ability to remain in school will be made by the Director of Counseling Services based upon professional medical evaluation. If a student is found to have a communicable disease, then the Director of Counseling Services will prohibit the attendance of the student on campus or at any College activity until a satisfactory letter or certificate is obtained from one or more licensed physicians or public health officials stating that the student is not a health risk to employees and other students at the College.

The College's Biohazard Control Plan defines guidelines that will be followed in the event of an accidental exposure to bodily fluids or biohazards. Any such exposure should be reported immediately to the responsible faculty or staff person associated with the WCC activity involving such exposure and to the Student Activities Coordinator and an accident report must be completed.

Counseling Services

Counselors are available to assist students with academic and personal concerns and to facilitate educational planning, career planning, and future planning. General academic information, counseling services for students with disabilities, short-term clinical services, assistance with the Allied Health limited admission process, and placement testing are services provided. For additional information or to schedule an appointment, call (919) 739-6732.

Critical Employability Skills (Soft Skills)

Soft Skills are non-technical, critical employability skills that are essential in today's workplace. These transferrable skills are vital in any industry or occupation and are often among the deciding factors in employee selection. Wayne Community College offers a one-week, thirty-hour, interactive training that addresses the soft skills gap within our current workforce and teaches individuals how they may improve these skills. Participants will have a hands-on learning experience, in which they are evaluated on teamwork, appearance, organization, productivity, communication, and various other skills. This course is open to students and to the public and is offered multiple times during the year. Registration and mandatory orientation occurs prior to the start of each class. Contact (919) 739-7011 for more information.

Dental Hygiene Clinic

The Wayne Community College Dental Department operates a hygiene clinic for students, faculty, staff, and the general public. The days of operation of the clinic vary from semester to semester. Patients should be prepared to remain in the clinic for a morning appointment from 9:00 a.m. to 12:00 p.m. and for an afternoon appointment from 1:00 to 4:00 p.m. For an appointment, call (919) 739-6780 or come by the clinic Monday through Thursday.

Distance Education Password Procedure

Users can request a password by contacting the Educational Support Technologies (EST) staff either face-to-face or over the phone. EST is located in the Wayne Learning Center, room 306 or can be reached by calling the WCC Distance Education help desk at (919) 739-7027 or (919) 739-7029. The user will be asked to present their WCC Id or asked identifying questions to verify their identity.

Dr. Clyde A. Erwin Library

The Dr. Clyde A. Erwin, Jr. Library, located on the third floor of the Wayne Learning Center building. Part of the Community College Libraries in North Carolina (CCLINC) consortium, with a shared online catalog, the Dr. Clyde A. Erwin, Jr. Library collections include nearly thirty-six thousand books, over thirteen thousand video recordings (both in the library and online), WCC Single Search, and over one hundred periodical and newspaper subscriptions.

Offerings of the library include the following:

- 30,000 reference and circulating print materials
- More than 100 magazines and journals
- One computer to search the online library catalog
- WCC Single Search
- 13,000 AV materials for faculty and in-library use
- 18 computers for research and homework
- Tours and information literacy sessions
- Reference and research assistance

Library Hours of Operation:

7:45 a.m.-8:00 p.m. Monday through Thursday

7:45 a.m.-1:00 p.m. Friday

(Hours may vary during Summer Term.)

For more information, call (919) 739-6891 or visit online at the library website: www.waynecc.edu/library.

Fees

Payment dates are listed in the registration instructions published prior to each registration period.

A student who has an outstanding balance due to the College is not eligible for registration. This includes any outstanding balance at another institution of the North Carolina community college system.

No student will be allowed to graduate or to receive a diploma, certificate, or transcript of his/her record, nor will any information concerning his/her record be forwarded to any other institution or person, as long as the delinquent account is outstanding.

Each student who registers for six or more semester hours credit during the Fall or Spring Semesters is required to pay a \$30.00 student activity fee; each student who registers for less than six semester hours credit during the Fall or Spring Semesters is required to pay a \$15.00 student activity fee. There is no activity fee during the Summer Term. Each student who registers for six or more semester hours credit is required to pay a \$16.00 technology fee; each student who registers for less than six semester hours credit is required to pay a \$8.00 technology fee during the Fall, Spring and Summer Semesters.

Identification Card

All WCC curriculum students are required to obtain and maintain an identification card. Periodic ID checks are conducted by the Office of Public Safety and Security.

Each student receives only one free ID at the semester of entry. Damaged or lost IDs will be replaced at a cost of \$5.00 per ID. Call the Student Activities office at (919) 739-6740 or (919) 739-6742 for office hours and other information.

STUDENT ID CARDS ARE VALIDATED EACH SEMESTER IN THE BUSINESS OFFICE OR STUDENT ACTIVITIES OFFICE UPON PAYMENT OF FEES, WITH A SEMESTARLY VALIDATION STAMPS.

Lost and Found

Lost and found articles are kept in the Campus Police and Security Office (Wayne Learning Center, 140). Articles that are not reclaimed will be disposed of or turned over to appropriate agencies after 30 days.

Online Courses with Moodle

Online Courses are similar to traditional college courses except students learn by employing computer technologies and the World Wide Web to access the academic information. Online courses are offered as part of the college's regular scheduled classes.

The College's online platform, Moodle, is a software program used for online delivery of course material. Moodle allows instructors to put their syllabi, lecture notes, PowerPoint presentations, and assignments online for students to access at anytime. The program also includes interactive features such as discussion boards and a virtual chat room. More information and support documentation about this software can be obtained online from <http://moodle.waynecc.edu>. Students must have access to the Internet through the College or at home in order to receive and complete assignments and communicate with the course instructor. For information regarding obtaining a password for Moodle, please refer to Distance Education Password Procedure.

Open Computer Lab

The Open Computer Lab is located in Magnolia 215 and is available to WCC students with a valid ID card. It contains 50 PCs, printers and a scanner. All instructional software offered by the College, along with Internet connectivity, is available. Consult the web site for hours of operation.

Parking Decal

Students parking on the WCC campus are required to have a valid parking decal. Each student receives only one free parking decal. Additional parking decals can be purchased in the Business Office for \$2.00 each. A valid license plate number is required to obtain a parking decal. Call the Student Activities office at (919) 739-6740 or (919) 739-6742 for office hours and other information.

Publications

Wayne Community College recognizes the value of providing opportunities for students and faculty to engage in journalistic endeavors. The College assumes the responsibility for issuing the following publication:

Renaissance - *Renaissance*, a writers' and artists' magazine, is funded by the Student Government Association through student activity fees. Students, faculty, and staff are contributors to the annual issue distributed in May. Members of the Liberal Arts Division serve as editors/advisors. Prizes are awarded for the best essay, poem, short story, and artwork; in addition, the Goldsboro Writers' Group offers a prize to the most promising new writer.

Refunds

Tuition Refund Policy - Curriculum Students

In accordance with NCAC 2D.0202, a refund cannot be made except under the following circumstances:

- A 100 percent refund shall be made if the student officially withdraws prior to the first day of class(es) of the academic semester as noted in the college calendar. Also, a student is eligible for a 100 percent refund if the class in which the student is officially registered is cancelled due to insufficient enrollment.
- A 75 percent refund shall be made if the student officially withdraws from the class(es) prior to or on the official 10 percent point of the semester.
- For classes beginning at times other than the first week (seven calendar days) of the semester, a 100 percent refund shall be made if the student officially withdraws from the class prior to the first class meeting. A 75 percent refund shall be made if the student officially withdraws from the class prior to or on the 10 percent point of the class.
- A 100 percent refund shall be made if the student officially withdraws from a contact hour class prior to the first day of class(es) of the academic semester or if the college cancels the class. A 75 percent refund shall be made if the student officially withdraws from a contact hour class on or before the 10th calendar day of the class.

To comply with applicable federal regulations regarding refunds, federal regulations will supersede the state refund regulations stated in this rule.

If a student should die during the semester (prior to or on the last day of examinations), having paid the required tuition for a semester, all tuition and fees for that semester may be refunded to the estate of the deceased (upon request) or to the Department of Education if the student was a Pell recipient.

Note: Tuition refunds and student activity refunds will not be considered for amounts of \$5 or less, except when a course fails to materialize; then all the students' tuition shall be refunded.

Financial Aid Title IV Refund

If students withdraw or reduce course load during the drop/add period of the semester, they may be required to repay some or all of their student financial aid. If students withdraw from college or cease attending classes prior to the 60 percent point of the semester, they will be responsible for the repayment of the Federal Pell Grant and any other Title IV grants received. Failure to repay student financial aid can result in a "tagged record." Having a "tagged record" prevents students from receiving financial aid in future semesters.

Student Activity Fee Refund Policy - Curriculum Students

A 100 percent refund shall be made if the student officially withdraws prior to the first day of class(es) of the academic semester as noted in the college calendar. Also, a student is eligible for a 100 percent refund if the class in which the student is officially registered is cancelled due to insufficient enrollment.

Scheduled Student Events

Only activity fee-paying students who present valid WCC identification cards shall be permitted to attend any activity sponsored by the WCC Student Government Association.

Any organization which plans to have a social gathering or fund raising activity should observe the following procedures and instructions:

- a. The Schedule Event Form or the Fund Raising Form must be turned in to the Coordinator of Student Activities at least three weeks prior to the event for review and approval/denial. Failure to meet this deadline may result in denial of the request.
- b. The place and date for the event must be reserved and any necessary deposit paid. Campus facilities, in general, must be

reserved through the Chief of Administrative Services. Student Lounge facilities must be reserved through the Student Activities Coordinator.

- c. At least one advisor must be present and his/her name given to the Coordinator of Student Activities at least three weeks prior to the event.

College rules and regulations governing students are applicable to all social functions. The following should be kept in mind:

- a. The sponsoring organization will be held responsible and accountable for the behavior and activities of all people attending the event.
- b. Failure to follow the above procedure and instructions will result in the postponement or cancellation of the event.
- c. A social function which, in the judgement of the advisors and administration, does not adhere to Wayne Community College standards is subject to immediate termination.

No group may sell food on campus during the hours of operation of the cafeteria line without permission of the Chief of Administrative Services -- at least three weeks in advance -- or the Coordinator of Student Activities.

(On Campus) SGA approved organizations must schedule all food sales, events, and/or solicitations with the Coordinator of Student Activities. All other organizations must receive approval from the Chief of Administrative Services or his/her designee.

(Off Campus) SGA approved organizations must have prior approval for off-campus functions by the Student Activities Coordinator.

Student Lounge

The College provides a Student Lounge for the convenience of curriculum students. Included in the lounge are a recreational area, a television area, and informal meeting areas. Throughout the year, the Student Activities Office sponsors student programs in the Lounge. Students are expected to follow rules as posted in the lounge.

Student Right-To-Know

Wayne Community College is committed to informing enrolled and prospective students about the probabilities of success in our programs as well as current job market information. The United States Department of Education requires that each institution of higher education publish completion rates for individuals who entered as full-time students and who completed their curriculum programs within one-and-one half times the time allowed for the program in the academic catalog. The average rate of persistence toward degree completion of students is available in the office of Admissions and Records.

Students With Disabilities

Wayne Community College is committed to seeing that students with disabilities have equal access all programs of study. In accordance with Section 504 of the Rehabilitation Act of 1973 and the Americans with Disabilities Act, students will receive reasonable accommodations to assure equal access to all services, programs and activities. Students with disabilities should contact the Disability Services Counselor in Counseling Services and present documentation of the disability. Accommodations will be determined by the documentation and in consultation with the student. Students needing accommodations should make arrangements with the Disability Services Counselor as soon as the need becomes known in order to provide ample time for arrangements to be made. Call (919) 739-6729 or TTY (919) 583-8544.

Wayne Community College has adopted an internal grievance procedure providing for prompt and equitable resolution of complaints that arise from any action prohibited by the Americans with Disabilities Act. Students with complaints should contact the Disability Service Counselor.

Technology at Wayne

Wayne Community College provides educational support technology services to all students, faculty and staff. Those services include open computer labs, open WiFi access, WCC Campus Cruiser and Cruiser Alert text messaging, Moodle, WCC WebAdvisor, WebAssign, the WCC Library online, and the Online Resource Center. Students are expected to adhere to the WCC Technology Acceptable Use Policy (TAUP). For more details on services and the TAUP, go to www.waynecc.edu/techatwayne/. Each student who registers for six or more semester hours credit is required to pay a \$16.00 technology fee; each student who registers for less than six semester hours credit is required to pay a \$8.00 technology fee during the Fall, Spring and Summer semesters.

Telephone

Pay telephones are conveniently located in various places for local and long distance calls. **Business telephones are not for student use.**

The Writing Center

The Writing Center offers individual assistance in the writing process to curriculum students of all programs. The Center attempts to help students improve their thinking and their writing skills. The Center asks questions to help students think; encourages and guides students with their writing; explains grammar problems; offers assistance in organizing, developing, editing, and revising papers; demonstrates research procedures; suggests source materials for research; and assists students with word processing.

Hours may vary from semester to semester.

Students may sign-up for individual appointments by calling (919) 739-6898, or by visiting the Center. Students may come to the Writing Center to type papers without an appointment; however, there are a limited number of computers. The Writing Center is located on the second floor of the Wayne Learning Center in room 220.

STUDENT HONORS

Dean's List

Wayne Community College recognizes outstanding academic achievement through the Dean's List. The Dean's List is composed of students who are enrolled for at least 12 semester hours (9 semester hours for summer term) and earn a grade point average of at least 3.60 and less than 4.0 for the semester, with no grade below "C". A grade of I (incomplete) or X (credit by exam) will exclude the student from the Dean's List.

Honors Program

The purpose of the Honors Program is to offer a challenging educational atmosphere of enrichment and exploration for students of high academic achievement. The program is designed for students who have excelled in the classroom, who have proven to be self-disciplined in their studies, and who have demonstrated a commitment to learning. The Honors Program includes opportunities for service-learning, leadership training, and extended studies. The aim for Wayne Community College is to help accelerated students better prepare themselves for leadership roles in their profession and in the community. For more information, contact Charlotte Brow, Honors Coordinator at 919-739-6840, e-mail: charbrow@waynecc.edu, or visit Azalea 315.

Phi Theta Kappa

Phi Theta Kappa is the largest honor society in higher education with serving 1,250 two-year colleges around the world and offering exclusive programs and benefits for members that contribute to a dynamic, multi-dimensional college experience. Phi Theta Kappa is a nationally recognized scholastic organization whose purpose is to encourage scholarship in junior colleges. The Wayne Community College Chapter, Upsilon Chi, was chartered on January 26, 1970.

To be eligible for membership in the Upsilon Chi Chapter, a student must meet the following requirements:

1. Complete at least 16 semester hours in an associate degree curriculum,
2. Attain a minimum overall grade point average of 3.50, and
3. Demonstrate good citizenship characteristics.

Upsilon Chi members are active in numerous campus and community service projects. They participate in regional and national conventions of Phi Theta Kappa and maintain close social ties with their fellow scholars on campus. For more information, contact Vicky Lassiter, Phi Theta Kappa advisor at 919-739-6880, e-mail: lassiter@waynecc.edu, or visit Spruce 144.

President's List

Wayne Community College recognizes outstanding academic achievement through the President's List. The President's List is composed of students who are enrolled for at least 12 semester hours (9 semester hours for summer term) and earn a grade point average of at least 4.0 for the semester. A grade of I (incomplete) or X (credit by exam) will exclude the student from the President's List.

Who's Who Among Students at WCC

Who's Who Among Students at WCC honors Wayne Community College's leading students for their individual excellence and the contributions they make to the college and community. Recognition is highly selective; less than one percent of the student body is selected for this honor annually.

Qualifications for consideration for inclusion in Who's Who include the following:

1. Candidates must have been enrolled during the current academic year.
2. Candidates must have earned a minimum GPA of 2.50 in a minimum of 18 semester hours credit during the semesters of eligibility.
3. Candidates must have participated in campus and community activities and demonstrated outstanding diligence, maturity, leadership, and potential for future success.

STUDENT CLUBS AND ORGANIZATIONS

Wayne Community College encourages students to be active in affairs of the institution. Through student clubs and organizations, the student will find opportunities for entertainment, friendships, leadership, and service to the college and community.

All student clubs and organizations must be approved by the Student Activities Coordinator and the Student Government Association (SGA). Each student club and organization must meet and adhere to the guidelines established by the SGA and the Office of Student Activities. Any student club or organization failing to observe such rules will be subject to appropriate sanction including having its charter suspended.

The following are Wayne Community College student clubs and organizations that have indicated they will be active in the 2012-2013

school year - pending official approval. Students can contact the advisors to learn more about these student clubs and organizations

In order for a student club to be approved by and afforded membership in the SGA, the following stipulations must be met:

- (a) Maintain an active membership of at least 6 activity fee-paying students.
- (b) Maintain a functional constitution which
 - 1) assures against discrimination based on race, color, creed, handicap, age, sex, or national origin, and
 - 2) does not violate college policy or local, state, or federal laws.
- (c) Maintain at least two active faculty/staff advisors who have been approved by the Associate Vice President or his/her designee.
- (d) Submit a list of club officers to the SGA and Student Activities Coordinator annually with updates during the year if changes occur.
- (e) Perform at least one SGA approved on-campus and one off campus service project per academic year.
- (f) Student clubs and organizations may maintain separate bank accounts, but these must not be a part of Wayne Community College nor may the account be listed with Wayne Community College as the responsible party.
- (g) Student clubs and organizations must submit a Presidential Report to the SGA by the second week in April.
- (h) Student club and organization representatives must attend all SGA monthly meetings and official club activities as deemed by the Executive Board.
- (i) Student representatives cannot officially represent multiple student clubs or organizations at SGA monthly meetings or official club activities.
- (j) SGA officers can only officially represent SGA at the SGA monthly meetings (although they can be members of other student clubs and organizations).
- (k) Student clubs and organizations who meet all of the above stipulations are eligible for club seed money.

The following are Wayne Community College student clubs and organizations that have indicated they will be active in the 2012-2013 academic year – pending official approval. Students should contact the advisors to learn more about the student clubs and organizations.

- Associate Degree Student Nurse Association Level I
- Associate Degree Student Nurse Association Level II
- BUDO Club
- Campus Crusade for Christ
- Criminal Justice Club
- Dental Assisting Club
- Dental Hygiene Club
- Diving Bison Club
- Human Services Club
- International Student Club
- Medical Assisting Student Association
- Minority Male Mentoring Group
- Pharmacy Technology Club
- Phi Beta Lambda
- Phi Theta Kappa
- Practical Nursing Club
- Wayne Community College Association of Nursing Students (WCCANS)
- WCC Optimist Club
- WCC Motor Sports Club

STUDENTS' RIGHTS, RESPONSIBILITIES AND JUDICIAL PROCEDURES

I. PREAMBLE

Academic institutions exist for the transmission of knowledge, the pursuit of truth, the development of students, and the well-being of society. Free inquiry and free expression are indispensable to the attainment of these goals. As members of this academic community, students are encouraged to develop the capacity for critical judgment and to engage in a sustained and independent search for truth.

Freedom to teach and freedom to learn are inseparable facets of academic conditions in the classroom, on the campus, and in the community. Students should exercise their freedom with responsibility. As members of the academic community, students are subject to the obligations that accrue to them by virtue of this membership. As members of the larger community of which the college is a part, students are entitled to all rights and protection accorded them by the laws of that community.

By the same token, students are also subject to all laws, the enforcement of which is the responsibility of duly constituted authorities. When students violate laws, they may incur penalties prescribed by legal authorities. In such instances, college discipline will be initiated only when the presence of the student on campus will disrupt the educational process of the college. However, when a student's violation of the law also adversely affects the college's pursuit of its recognized educational objectives, the college may enforce its own regulations. When students violate college regulations, they are subject to disciplinary action by the college whether or not their conduct violates the law. If a student's behavior simultaneously violates both college regulations and the law, the college may take disciplinary action independent of that taken by legal authorities.

II. STUDENT RIGHTS

- A. All rights and privileges guaranteed to every citizen by the Constitution of the United States and by the state of North Carolina shall not be denied any student.
- B. Students are free to pursue their educational goals. Appropriate opportunities for learning in the classroom and on the campus shall be provided for by the college. Student performance will be evaluated solely on an academic basis, not on opinions or conduct in matters unrelated to academic standards.
- C. Students have the right to freedom of expression, inquiry, and assembly without restraint or censorship subject to reasonable and non-discriminatory rules and regulations regarding time, place, and manner.
- D. Students have the right to inquire and to propose improvements in policies, regulations and procedures affecting the welfare of students through established student government procedures, campus committees, and college offices.
- E. The Family Educational Rights and Privacy Act of 1974 provides safeguards regarding the confidentiality of and access to student records, and this Act will be adhered to by the college. Students and former students have the right to review their official records and to request a hearing if they challenge the contents of these records. No records shall be made available to unauthorized personnel or groups outside the college without the written consent of the student involved, except under legal expulsion.
- F. No disciplinary sanctions other than immediate dismissal from class or activity (only for duration of said activity) may be imposed upon any student without due process. Due process procedures are established to guarantee a student accused of a Student Code of Conduct violation the right of a hearing, a presentation of

charges, evidence for charges, the right to present witnesses on one's behalf and to hear witnesses on behalf of the accuser(s), the right to counsel, and the right to appeal.

III. ACADEMIC INTEGRITY

Wayne Community College expects all students to maintain the highest standards of academic integrity. A violation of academic integrity includes but is not limited to the following:

- Acquiring or attempting to acquire possession of any academic material not intended for students (test information, research papers, notes, etc.)
- Receiving or giving help or attempting to receive or give help during a test
- Submitting papers or reports (that are supposed to be original work) which are not entirely the student's own, not giving credit for others' work (plagiarism), etc.
- Permitting one's academic work to be represented as the work of another in traditional, hybrid, and online courses
- Substituting for another student in order to meet course requirements in traditional, hybrid, and online courses
- Use of cell phones, beepers, walkie-talkies, or other electronic communication devices in the classroom, lab or library setting. All systems of communication are required to be turned off during instructional, lab, or library time.

Intentional plagiarism is a form of intellectual theft that violates widely recognized principles of academic integrity. Plagiarism may occur with respect to unpublished as well as published material. Intentional plagiarism is the act of representing the words, ideas, or data of another as one's own without providing proper attribution to the author through quotation, reference, or footnote.

At the discretion of the instructor, any student who violates the academic integrity of the college will be subject to one or more of the following sanctions:

- Student receives a grade of "0" on the assignment or test in traditional, hybrid, and online courses
- Student receives "F" in course
- Student is removed from program if they are enrolled in a limited enrollment program.

All violations of academic integrity must be reported to the instructor's immediate supervisor. Students may be subject to the disciplinary procedures and sanctions described in Section V and VI. All students have the right to appeal any decision by the instructor, division chair, or designee according to the grade appeal process.

IV. STUDENT CODE OF CONDUCT

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

The following regulations set forth rules of conduct which prohibit certain types of student behavior. Violation of one or more of the following regulations may result in one or more of the sanctions described in section VI.

- A. Academic Dishonesty - taking or acquiring possession of any academic material (test information, research papers, notes, etc.) from a member of the college staff or student body without permission; receiving or giving help during tests; submitting papers or reports (that are supposed to be original work) that are not entirely the student's own; not giving credit for others' work (plagiarism).

- B. Theft of, misuse of, or damage to college property; or theft of or damage to property of a member of the college community or a campus visitor on college premises or at college functions; unauthorized entry upon the property of the college or into a college facility or a portion thereof which has been restricted in use and thereby placed off limits; unauthorized presence in a college facility after closing hours.
- C. Possession of or use of alcoholic beverages or being in a state of intoxication on the college campus or at college-sponsored or supervised functions off campus or in college-owned vehicles. Possession, use or distribution of any illegal drugs, except as expressly permitted by law. Any influence which may be attributed to the use of drugs or of alcoholic beverages shall not in any way limit the responsibility of the individual for the consequences of his/her actions.
- D. Lewd or indecent conduct including public, physical or verbal action (profanity) or distribution of or wearing clothes bearing obscene or libelous written material.
- E. Mental or physical abuse of any person on college premises or at college-sponsored or college supervised functions, including verbal or physical actions which threaten or endanger the health or safety of any such persons or which promote hatred or racial prejudice.
- F. Any act, comment, or behavior which is of a sexually suggestive or harassing nature and which in any way interferes with a student's or an employee's performance or creates an intimidating, hostile or offensive environment.
- G. Intentional obstruction or disruption of teaching, research, administration or disciplinary proceedings, or other college activities, including public service functions, and other duly authorized activities on college premises.
- H. Occupation or seizure in any manner of college property, a college facility or any portion thereof for a use inconsistent with prescribed, customary, or authorized use.
- I. Participating in or conducting an assembly, demonstration or gathering in a manner which threatens or causes injury to person or property; which interferes with free access to, ingress or egress of college facilities; which is harmful, obstructive or disruptive to the educational process or institutional functions of the college; remaining at the scene of such an assembly after being asked to leave by a representative of the college staff.
- J. Possession or use of a firearm, incendiary device or explosive, except in connection with a college approved activity. This also includes unauthorized use of any instrument designed to inflict serious bodily injury to any person.
- K. Setting off a fire alarm or using or tampering with any fire safety equipment, except with reasonable belief in the need for such alarm or equipment.
- L. Gambling.
- M. Smoking or use of tobacco products on the WCC campus. This includes all buildings, facilities, College vehicles, walkways, out-of-door areas, campus grounds, parking lots and the instructional areas of off-campus college programs and courses.
- N. Violation of college regulations regarding the operation and parking of motor vehicles.
- O. Forgery, alteration, or misuse of college documents, records, or instruments of identification with intent to deceive. Falsification of admissions documents resulting in incorrect information which could be used in the consideration of admissions to the college, financial aid, or limited admissions programs.
- P. Failure to comply with instructions of college officials acting in performance of their duties.

- Q. Violation of the terms of disciplinary probation or any college regulation during the period of probation.
- R. Fiscal irresponsibility such as failure to pay college-levied fines, failure to repay college-funded loans, or the passing of worthless checks to college officials.
- S. Violation of a local, state, or federal criminal law on college premises adversely affecting the college community's pursuit of its proper educational purposes.
- T. Use of cell phones, beepers, walkie-talkies, or other electronic communication devices in the classroom, lab or library setting. All systems of communication are required to be turned off during instructional, lab, or library time.
- U. Eating and drinking in classrooms, laboratories, shops and the Library is prohibited. Any exceptions must be requested in writing (WCC Room Reservations Form) and pre-approved by the appropriate person.
- V. Computer misconduct including any activity that violates college computer and internet usage policies (eg.TAUP) including any prohibited internet activities.

V. DISCIPLINARY PROCEDURES

(The Director of Counseling Services as designated by the Associate Vice President and hereafter referred to as Director will be responsible for handling judicial procedures. The Associate Vice President may handle judicial procedures in the absence of the Director).

- A. Immediate Dismissal** - If an act of misconduct threatens the health or well-being of any member of the academic community or seriously disrupts the function and good order of the college, an instructor or college employee may direct student(s) involved to cease and desist such conduct and advise them that failing to cease and desist will result in immediate dismissal. If the student(s) fail to cease and desist, the instructor or college employee may then dismiss the student(s) from the event, activity, or the class (until the next class meeting). The instructor or college employee may dismiss the student(s) from either the class or the college until a resolution of the matter can be made. The instructor or college employee invoking such dismissal shall make a formal charge in writing to the Director of the individual(s) involved and the nature of the infraction as soon as possible but no more than five (5) business days following the incident. The Director shall resolve the matter in a timely fashion utilizing the steps outlined below in section V, C.
- B. Responsibility for Implementation** - The Director is responsible for implementing student discipline procedures.
- C. Disciplinary Procedures** - In order to provide an orderly procedure for handling student disciplinary cases in accordance with due process and justice, the following procedures will be followed:
 1. Charges: Any administrative official, faculty member, or student may file charges with the Director against any student or student organization for violations of college regulations. The individual(s) making the charge must complete a charge form (available from the office of the Director) stating:
 - a. name of the student(s) involved,
 - b. the alleged violation of the specific Code of Conduct,
 - c. the time, place, and date of the incident, and
 - d. names of person(s) directly involved or witnesses to the infractions,
 - e. any action taken that relates to the matter,
 - f. desired solution(s).
 The completed charge form should be forwarded to the Director within five (5) business days of the incident.
 2. Investigation and Decision: Within five (5) business days

after the charge is filed, the Director shall complete a preliminary investigation of the charge and shall schedule a meeting with the student. After discussing the alleged infraction with the student, the Director may act as follows:

- a. Drop the charges.
 - b. Impose a sanction consistent with those shown in Section VI.
 - c. Refer the student to a college office or community agency for services.
3. Notification: The Director shall send a certified letter to the student's last known address on file with the Office of Admissions and Records providing the student with a list of the charges, the Director's decision, and instructions governing the appeal process (Section VII). A copy will also be sent to the complainant. Failure of the student to accept receipt of the letter within (6) six business days of letter postmark ends the appeal procedure and the student forfeits his/her right to further appeal.

VI. SANCTIONS

A student who disagrees with the decision of the Director of Counseling Services regarding a disciplinary sanction may request a hearing before the College's Disciplinary Review Committee. This request must be submitted in writing and received by the Director within three (3) business days of receipt of the Director's decision. The Director shall refer the matter to the Disciplinary Review Committee together with a report of the nature of the alleged misconduct, the name of the complainant, the name of the student against whom the charge has been filed, and the relevant facts revealed by the Director's investigation.

- A. Reprimand:** A written communication which gives official notice to the student that any subsequent offense against the Student Code of Conduct will carry heavier penalties because of this prior infraction.
- B. General Probation:** An individual may be placed on General Probation when involved in a minor disciplinary offense; General Probation has two (2) important implications: the individual is given a chance to show capability and willingness to observe the Student Code of Conduct without further penalty; secondly, if the individual errs again, further action will be taken. This probation will be in effect for no more than two (2) semesters.
- C. Restrictive Probation:** Restrictive Probation becomes a matter of record and results in limitations being placed on the student and/or loss of good standing. Restrictive conditions may limit the student's access to physical locations on the campus, dates and times the student can be on the campus, or activity in the college community. If the individual is restricted from activity in the college community they will not be eligible for initiation into any local or national organization, and may not receive any college award or other honorary recognition. The individual may not occupy a position of leadership or responsibility with any college or student organization, publication, or activity. This probation will be in effect for not less than two (2) semesters. Any violation of Restrictive Probation may result in immediate SUSPENSION.
- D. Restitution:** Paying for damaging, misusing, destroying or losing property belonging to the college, college personnel, or students.
- E. Withholding transcript, diploma, right to register, or participate in graduation ceremonies:** Imposed when financial obligations are not met. (Will not be allowed to register until all financial obligations are met.)
- F. Loss of Academic Credit or Grade:** Imposed as a result of academic dishonesty.

- G. Interim Suspension:** Exclusion from class and/or other privileges or activities as set forth in the notice, until a final decision has been made concerning the alleged violation.
- H. Suspension:** Exclusion from class(es), and/or all other privileges or activities of the college for a period of not less than two (2) semesters. This sanction is reserved for those offenses warranting discipline more severe than probation or for repeated misconduct. Students who receive this sanction must get specific written permission from the Director before returning to campus and are placed on two (2) semesters of probation upon their return.
- I. Expulsion:** Dismissing a student from campus for an indefinite period losing student status. The student may be readmitted to the college only with the approval of the President.
- J. Group Probation:** This is given to a college club or organized group for a specified period of time. If group violations are repeated during the term of the sentence, the charter may be revoked or activities restricted.
- K. Group Restriction:** Removing college recognition during the semester in which the offense occurred or for a longer period (usually not more than one (1) other semester). While under restriction, the group may not seek or add members, hold or sponsor events in the college community, or engage in other activities as specified.
- L. Group Charter Revocation:** Removal of college recognition for a group, club, society, or other organizations for a minimum of two (2) years. Recharter after that time must be approved by the President.

NOTE: Failure to Comply: Failure to comply with the rules of the college may result in charges filed against the student(s). Statute 14-288.4 of the North Carolina Criminal Law forbids disorderly conduct in any educational institution. The first offense under this statute would be a Class 2 misdemeanor; a second offense would be a Class 1 misdemeanor; a third offense or subsequent offense would be a Class 1 felony.

VII. APPEALS PROCEDURE

A student who disagrees with the decision of the Director may request a hearing before the Disciplinary Review Committee. This request must be submitted in writing and received by the Director within three (3) business days after receipt of the Director's decision. The Director shall refer the matter to the Disciplinary Review Committee together with a report of the nature of the alleged misconduct, the name of the complainant, the name of the student against whom the charge has been filed, and the relevant facts revealed by the Director's investigation.

- A. Committee Composition, Role, and Authority -** The composition, role and authority of the Disciplinary Review Committee shall be as follows:



1. Committee membership will consist of:
 - a. A minimum of three faculty/staff members appointed by the President of the college.
 - b. Three student members appointed by the Student Government Association and approved by the President of the college.
 - c. The President will appoint one employee to serve as committee chairperson who will vote only in case of a tie.
 - d. The Director as an ex-officio, non-voting member.
2. The Role of the committee:
 - a. Committee members will serve one year from the beginning of fall semester through summer semester with replacements appointed by the President as necessary.
 - b. At least two faculty/staff members and two students plus the chairperson must be present in order for the Committee to conduct business.
 - c. The Committee shall hear and render decisions concerning student appeals.
3. The Authority of the committee:
 - a. The Committee shall have the authority to adopt temporary rules of procedure consistent with this code.
 - b. The Committee shall have the authority to render written advisory opinions to the Associate Vice President concerning student rights, responsibilities and judicial procedures.

B. Procedures for Hearing Before the Disciplinary Review Committee

1. Procedural Responsibilities of the Director. The Review Committee must meet within ten (10) business days of receipt of a request for a hearing (excluding school breaks). A postponement may be granted by the chairperson upon written request of either party, if the reason stated justifies such action.

At least five (5) business days prior to the date set for the hearing, the Director shall send a certified letter to the student's last known address on file with the Office of Admissions and Records providing the student with the following information:

- a. A restatement of the charge or charges.
- b. The time and place of the hearing.
- c. A statement of the student's basic procedural rights.
- d. A list of witnesses.
- e. The names of committee members.

In addition, if the student(s) decides to have counsel and or witnesses present at the hearing he she must provide (in writing) to the Director the name of the counsel and/or witness at least two (2) business days prior to the scheduled hearing. If not properly submitted, it is at the discretion of the Committee to allow the counsel and/or witnesses to.

On written request of the student, the hearing may be held prior to the expiration of the five-day (5) notification period, if the Director concurs with this change.

2. Basic procedural rights of students include the following:
 - a. The right to counsel. The role of the person acting as counsel is solely to advise the student. The counsel shall not address the Committee. An individual serving in the role of counsel cannot be a witness during the hearing.
 - b. The right to produce witnesses on one's behalf. Individuals serving in the role of witness cannot serve in the role of counsel.

- c. The right to request, in writing, the President to disqualify any member of the Committee for prejudice or bias. (The request must contain reasons). A request for disqualification, if made, must be submitted at least three (3) business days prior to the hearing. If such disqualification occurs, the appropriate nominating body shall appoint a replacement to be approved by the President.
 - d. The right to present evidence.
 - e. The right to know the identity of the person(s) bringing the charge(s), unless there is sufficient cause for the person bringing the charge to fear (as determined by the appropriate area Vice President) reprisal.
 - f. The right to hear witnesses on behalf of the persons bringing the charges, unless there is sufficient cause for the person bringing the charge to fear (as determined by the appropriate area Vice President) reprisal.
 - g. The right to testify or to refuse to testify without such refusal being detrimental to the student.
 - h. The right to appeal the decision of the Committee to the President who will review the official record of the hearing. The appeal must be in writing and must be received within three (3) business days of the completion of the hearing receipt of the Committee's decision. If the student fails to submit the appeal by the deadline the appeal procedure ends, and the student forfeits his/her right to further appeal.
 - i. If a student fails to attend the hearing (the Committee will wait 10 minutes), the appeal procedure ends, and the student forfeits his/her right to further appeal.
3. Prohibitions - Neither the student, nor his/her representatives (counsel, family, friends, etc.) shall contact a Disciplinary Review Committee member, the College witnesses, the President, members of the Board of Trustees, or other community constituents prior to the Disciplinary Review proceedings. Such contact constitutes a breach in the disciplinary process and may adversely affect the hearing.
 4. The Conduct of the Committee Hearings
 - a. Hearings before the Committee shall be confidential and shall be closed to all persons except the following:
 - (1) The student.
 - (2) Counsels.
 - (3) Witnesses who shall:
 - (a) Give testimony singularly and in the absence of other witnesses.
 - (b) Leave the committee meeting room immediately after completion of the testimony.
 - (4) Security - the Committee has the right to have members of the Campus Public Safety and Security Office present at the hearing.
 - b. The hearing will be recorded. Recordings will become the property of the college, and access to them will be determined by the Chairperson of the Committee and the Director. All recordings will be filed in the office of the Director.
 - c. Upon completion of a hearing, the Committee shall meet in executive session to determine concurrence or non-concurrence with the original finding and to recommend sanction, if applicable.
 - d. Decisions of the Committee shall be made by majority vote.
 - e. Within two (2) business days after the decision of the Committee, the Director shall send a certified letter to the student's last known address on file in the Office

of Admissions and Records providing the student with the Committee's decision. A copy of this letter will be sent to the complainant. Failure to accept receipt of the letter within (6) six business days of letter postmark ends the appeal procedure and the party forfeits his/her right to further appeal

- C. **Appeal to the President** - If the student or the complainant refuses to accept the findings of the Committee either may appeal in writing to the President within three (3) business days after receipt of the Committee's decision. If the written appeal is not received by the President within the time frame the appeal process ends and they forfeit their right to further appeal. The President shall have the authority to:
 1. Review the findings of the proceedings of the Committee.
 2. Hear from the student, the Director, the complainant and the members of the Committee before ruling on an appeal.
 3. Approve, modify, or overturn the decision of the Committee.
 4. Inform the student and the complainant in writing of the final decision within ten (10) business days of the receipt of the appeal. Failure to accept receipt of the letter within (6) six business days of letter postmark ends the appeal procedure and the party forfeits his/her right to further appeal.
- D. **Appeal to the Board of Trustees** - If either the student or the complainant refuses to accept the findings of the President either may appeal in writing to the Board of Trustees within three (3) business days of receipt of the President's decision.

If the written appeal is not received by the Board of Trustees within the time frame the appeal process ends and they forfeit their right to further appeal. The Board of Trustees or a committee of the Board may review information to date and render a decision without the personal appearance before them of the parties of the Review Committee hearing or they may choose to have the parties involved in the hearing appear before them before rendering a decision. The decision of the Board will be made within twenty (20) business days of receipt of the appeal and will be final.

VIII. STUDENT GRIEVANCE PROCEDURE

- A. **Purpose** - The purpose of the Student grievance Procedure is to assure students that their grievances will be considered fairly, rapidly, and in a non-threatening atmosphere.

Students have the right to grieve when they have reason to believe that a condition, situation, or action affecting them is unjust, inequitable, and/or a hindrance to effective performance.

A grievable action is an action that is in violation of written campus policies or procedures or constitutes arbitrary, capricious, or unequal application of written campus policies or procedures. This would include alleged discrimination on the basis of age, sex, race, handicap or other conditions, preferences or behaviors (excluding sexual harassment complaints, which, due to its sensitive nature, would first be directed to the grievance officer appointed by the President, and only if not resolved by meeting with the grievance officer would then follow the remainder of the grievance procedure). This would also include academic matters (excluding individual grades except where the above conditions apply).

- B. **Procedures** - These procedures are not intended to initiate disciplinary action against a member of the faculty, staff or administration, or to alter college policy.
 1. **First Step** - The student must go to the instructor or staff member where the alleged problem originated. An attempt

will be made to resolve the matter equitably and informally at this level. The conference must take place within five (5) business days of the incident which generated the complaint.

2. **Second Step** - If the grievance is not resolved at the informal conference, the student must talk with the faculty/staff member's immediate supervisor (e.g. department chair) who will attempt to resolve the issue. This discussion must take place within five (5) business days of completion of step one.
3. **Third Step** - If the grievance is not resolved within the department, the student may file a written grievance. The student would obtain the grievance form from the Director of Counseling Services who will explain the grievance process to the student. The completed grievance form must be returned to the Director within five (5) business days of completion of step two. The Director will then refer the grievance to the appropriate administrator (e.g. division chair) involved. The administrator shall respond in writing to the student within ten (10) business days of receipt of the grievance form.
4. **Fourth Step** - If the written statement of the administrator does not satisfy the grievant, the student may request to appear before the Student Grievance Committee. The student must submit a written request to the Director of Counseling Services and be received within three (3) business days of receipt of the administrator's statement. The request shall include a copy of the original grievance form, a copy of the administrator's written response, and the reason why the administrator's response is unsatisfactory.

The Director shall immediately notify the President who shall insure that the Committee is organized in a manner consistent with Section C of this procedure (The Student Grievance Committee). The Director will send copies of the appeal to the members of the Committee, the employee, and the employee's supervisor. The employee against whom the grievance was filed shall be given an opportunity to respond in writing to the chairperson of the committee.

The Student Grievance Committee shall meet between five (5) and fifteen (15) business days of receipt of the request (excluding school breaks). A postponement may be granted by the Chairperson upon written request of either party, if the reason stated justifies such action.

The Committee shall function by the guidelines outlined in Section VII for the Disciplinary Review Committee.

The Committee shall decide by a majority vote the resolution of the grievance. In case of a tie, the chairperson shall vote to break the tie. The chairperson shall forward a copy of the Committee's decision to all parties involved and to the office of the President within two (2) business days of the Committee's decision.

5. **Fifth Step** - The Committee's decision may be appealed by either party involved to the President of the College within three (3) business days of receipt of the Committee's decision. Failure of the student to accept receipt of the letter within (6) six business days of letter postmark ends the appeal procedure and the student forfeits his/her right to further appeal. If the written appeal is not received by the President within the time frame the appeal process ends and they forfeit their right to further appeal. The President shall review the Committee's findings, conduct whatever additional inquiries deemed necessary, and

will render a decision within ten (10) business days of receipt of the appeal.

6. **Sixth Step** - The President's decision may be appealed by either party involved to the Board of Trustees within three (3) business days of receipt of the President's decision. Failure of the student to accept receipt of the letter within (6) six business days of letter postmark ends the appeal procedure and the student forfeits his/her right to further appeal. If the written appeal is not received by the Board of Trustees within the time frame the appeal process ends and they forfeit their right to further appeal.

The Board of Trustees or a committee for the Board shall review any information to date, conduct whatever additional inquiries deemed necessary, and render a decision within twenty (20) business days of receipt of the appeal. The decision of the Board will be final.

- C. **The Student Grievance Committee** - The Disciplinary Review Committee may serve as the Student Grievance Committee or, at the direction of the President, a new Committee may be formed for each grievance. Committee makeup and method of appointment will be the same as for the Disciplinary Review Committee.
- D. **Right of Parties Involved in a Grievance** - When a grievance committee meeting is scheduled, the parties involved are entitled to:
 1. A written notice of the complaint.
 2. A written notice of the time and place of the meeting. This notice shall be forwarded to all parties at least five (5) business days prior to the meeting unless they waive this requirement.
 3. Review all available evidence, documents, or exhibits that each party may present at the meeting.
 4. Have access to the names of the witnesses who may testify.
 5. Appear in person and present information on his or her behalf, call witnesses, and ask questions of any person present at the meeting.
 6. The right to counsel. The role of the person acting as counsel is solely to advise the client. The counsel shall not address the Committee.
 7. The student will provide the Director of Counseling Services the name of the student's counsel and the list of student's witnesses at least two (2) business days prior to the scheduled meeting.
 8. If the grievant fails to attend the meeting (the committee will wait ten (10) minutes from the scheduled meeting time), the grievance procedure ends and the student forfeits their right to further appeal.
- E. **Prohibitions** - Neither the student, nor his/her representatives (counsel, family, friends, etc.), shall contact a Student Grievance Committee member, the College witnesses, the President, members of the Board of Trustees, or other community constituents prior to the student grievance proceedings. Such contact constitutes a breach in the grievance process and may adversely affect the meeting.

GRADE APPEAL PROCESS

Purpose

The purpose of this section is to describe the process by which a student may appeal the final grade given by an instructor for completion of a curriculum course. A student who wishes to appeal a grade given for assignments, rather than for the completion of a course, should see the appropriate instructor and/or department chair.

Procedure

A student has the right to appeal a course grade when he/she believes that his/her performance in a course has been incorrectly evaluated by the instructor. Any such appeal should be initiated no later than two business weeks following the completion of the course.

The first level of appeal, in all cases, should be to the instructor involved. Only if the issue cannot be resolved between the instructor and student should further appeals be made.

In that case, a student should make his/her appeal, in writing, to the appropriate department chair and should clearly set forth the basis for the student's belief that the evaluation is incorrect. The department chair will work with the instructor and, where appropriate, with the division chair, to review the student's appeal. The department chair, with the division chair's input, will make a response to the student within one business week of the date of appeal.

If the student is not satisfied with the department and division chairs' decision, the student has the right to appeal that decision, in writing, for review by the Vice President of Academic Services. The Vice President of Academic Services may communicate with the instructor, department chair, and appropriate division chair in order to fully understand the basis for appeal. The Vice President of Academic Services may appoint a peer review committee of curriculum faculty to act in an advisory capacity.

At the completion of this review and within one business week of the student's appeal, the Vice President of Academic Services will make a decision and convey that decision to the student, the instructor, department chair and division chairs involved. The decision of the Vice President of Academic Services is final.

CAMPUS SAFETY AND SECURITY

Campus Security Act

The Campus Security Act was signed into law in 1990, as a part of the Higher Education Act of 1965. It is a federal law that requires colleges, universities and postsecondary institutions to disclose certain timely and annual information about campus crime and security policies. Amendments to the Act in 1998 renamed it the Jeanne Clery Disclosure of Campus Security Policy and Campus Crime Statistics Act in memory of Jeanne Clery.

The Act requires an annual report be prepared and made available automatically to all current students and employees, and notification of its existence to prospective students and employees and afforded opportunity to request a copy.

Each school must disclose crime statistics in the following seven (7) major categories, with several sub-categories: 1.) Criminal Homicide broken down by a.) Murder and Non-negligent Manslaughter and b.) Negligent manslaughter; 2.) Sex Offenses broken down by a.) Forcible Sex Offenses (includes rape) and b.) Non-forcible Sex Offenses; 3.) Robbery; 4.) Aggravated Assault; 5.) Burglary; 6.) Motor Vehicle Theft; and 7.) Arson. The following three types of incidents if they result in either an arrest or disciplinary referral are also required to be reported: 1.) Liquor Law Violations; 2.) Drug Law Violations; and 3.) Illegal Weapons Possession. If both an arrest and referral are made only the arrest is counted.

Schools are also required to provide "timely warnings" which are triggered only when the school considers a crime to pose an ongoing "threat to students and employees."

The annual report is available at www.waynecc.edu/administration/educational-support/security and printed copies are available at the Campus Police & Security Department.

Wayne Community College's Office of Campus Police and Security is on duty 24 hours a day, 7 days a week, protecting both school and student property. This office enforces all state criminal and motor vehicle laws including traffic and parking violations. The Office of Campus Police and Security is located in Wayne Learning Center, 140.

Illegal acts include but are not limited to the following:

1. Possession and/or use of any controlled substance or alcoholic beverage at an educational property or at any school sponsored event. Use of a drug authorized by a medical prescription from a registered physician is not considered a violation of this rule.
2. Larceny of, or damage to property belonging to the college or to any member of the student body, faculty, or staff.
3. Possession of weapons on campus (i.e., firearm, knife, razor, B.B. gun, etc.). This includes weapons stored in any vehicle on campus property.
4. Engaging in conduct which disrupts, disturbs or interferes with the teaching of students.

Anyone suspected of involvement in illegal acts should be reported to the Campus Police and Security Office as quickly as possible. The Office of Campus Police and Security can be reached through the switchboard operator by dialing 0 or dial 919-739-7050 to reach Campus Police and Security 24 hours a day, 7 days a week.

REWARDS

The Student Government Association has established a reward of up to \$100.00 for information leading to the apprehension of anyone involved in illegal acts committed on campus

All information and person providing the information will remain strictly confidential.

Following these rules will help prevent thefts:

1. Always remove keys and lock your vehicle, even if leaving for brief periods of time.
2. Do not leave anything of value in sight in your vehicle.
3. Do not leave personal belongings, such as books or handbags, unattended at any time.

Emergency call boxes are located in all parking lots as well as the tennis courts. Look for the blue light and push the button on the box. This will alert Campus Police and Security.

EMERGENCY PHONE NUMBERS

CAMPUS POLICE AND SECURITY..... (919) 739-7050
EMERGENCY..... 911

CAMPUS PARKING

Parking Regulations

Display parking decal as shown on left side outside of back glass (left bottom corner).

- Students may park in any undesignated parking spaces.
- Visitor parking spaces are not for student, faculty, or staff use.
- Should you need a temporary parking pass, contact the Office of Campus Police and Security or the Student Activities Office.
- Motorcycles/mopeds must have parking decals visibly displayed.



23. Failure to yield right-of-way to emergency vehicles.
24. Failure of two-wheeled vehicles to park in areas designated for them (Magnolia and Wayne Learning Center south lots).
25. Operating or parking a vehicle in any manner that creates a safety hazard.
26. Leaving a vehicle on campus overnight without notifying a Campus Police or Security Officer.

Article I

All of the provisions of Chapter 20 of the General Statutes relating to the use of the highways of the State of North Carolina and the operation of motor vehicles thereon shall apply to the streets, roads, alleys, and driveways on the campus of the college along with other rules and regulations approved by the Board of Trustees.

Article II

These rules and regulations shall apply on a 24-hour basis to operators of all vehicles, public or private, while operating a vehicle on the campus of the college.

Article III

The operator of any vehicle on the campus of the college shall comply with the legal instructions of any Campus Police or Security Officer and all traffic signs in accordance with the provision of these regulations. The responsibility of finding a legal parking space rests with the motor vehicle operator. Lack of space is not considered an excuse for violation of parking regulations. The college shall be responsible for ensuring that the necessary signs are erected and maintained to carry out the intent of these regulations.

Article IV

All vehicles to be operated on campus must be properly registered and display a parking decal on the rear of the vehicle. Students, faculty, and staff shall be required to register their vehicles. Failure to comply with the vehicle registration procedure constitutes an offense equal to a parking violation. Parking decals are obtained normally during registration but may be purchased from the Business Office for staff and the Student Activities Office for students.

Specific Provisions

Article VI

The following system of citations and fines shall be used:

- A. The Office of Campus Police and Security shall be responsible for issuing citations for improper parking and other Traffic Code violations.
- B. Vehicle Fines
 1. Violations of the Traffic and Parking Policy carry a \$5.00 fine for each citation.
 2. Fines shall be made payable to the Business Office and receipted by the cashier.
 3. Fines must be paid immediately after all appeals have been exhausted; or if the person has not filed notification of the intent to appeal, immediately following his/her last hearing; or ten (10) calendar days after the ticket was issued and the time for appeal has expired; whichever is greater.
- C. When a vehicle which is improperly parked so as to obstruct the flow of traffic or movement of other vehicles is identified, the driver of the vehicle will be notified immediately. This may require calling the student out of class. If a student is notified more than once to move his/her improperly parked vehicle, his driving privileges on the college campus may be revoked.

TRAFFIC AND PARKING POLICY

General Provisions - Under the provisions of North Carolina Statute 115D-21, the following Traffic and Parking Policy shall be enforced at the college:

- A. Citations will be issued for violations of the college's Traffic and Parking Policy.
- B. The person to whom a vehicle parking decal is issued, as herein provided, shall be responsible for all parking and traffic violations of the vehicle for which the permit is issued. Obtaining a parking decal is the responsibility of the person bringing the vehicle on campus, and failure to do so constitutes a violation of the Traffic and Parking Policy. Motorcycles and mopeds shall be considered vehicles subject to this same policy.
- C. Specific violations of the Traffic and Parking Policy include the following:
 1. Parking in a restricted parking lot or zone.
 2. Parking in "handicapped parking" without a proper handicapped decal or license plate displayed.
 3. Parking on grass (unless signs indicate this is permissible).
 4. Blocking any legally parked vehicle.
 5. Not displaying a current parking decal/permit.
 6. Not affixing parking decal to the rear of the vehicle.
 7. Parking in a "no-parking" zone.
 8. Parking in a "visitor" zone.
 9. Affixing a parking decal/permit to a vehicle other than that for which it was issued.
 10. Parking against traffic flow.
 11. Reckless driving.
 12. Blocking or obstructing traffic, street, crosswalk, sidewalk, fire hydrant, building entrance or exit, or another vehicle properly parked.
 13. Protruding into lane of traffic.
 14. Double parking.
 15. Parking on shoulder of road (except where parking is indicated by official signs).
 16. Driving in excess of posted speed limits.
 17. Failure to obey traffic signs.
 18. Failure to obey directions of Campus Police and Security Officers.
 19. Failure to yield right-of-way at pedestrian crossings.
 20. Following too closely.
 21. Driving under the influence of alcohol or narcotics.
 22. Operating vehicle causing loud and unnecessary noise, such as mufflers, horns, public address systems, stereos, etc.

Article VII

In addition to the standard fines imposed for violations of the Traffic Code, the following penalties may also be imposed:

- A. All of those provisions detailed in North Carolina General Statute 115D-21 and Section 20.
- B. The college shall prohibit a student from registering for classes for the next semester if the student owes fines from the previous semester.
- C. The college shall withhold transcripts and deny graduation for students for failure to pay fines.
- D. Faculty and staff will be subject to disciplinary procedures in accordance with college policy.
- E. Delinquent fines will be added to the student's financial account with the college. The student will not be permitted to re-enroll until fines are paid.
- F. Students who accumulate five or more traffic citations for parking and traffic violations will lose their parking and driving privileges on campus for the remainder of the semester in which the violations have occurred and the following semester.
- G. Any vehicle left on campus for one week or more without properly notifying the Office of Campus Police and Security will be considered abandoned and towed at the owners expense.

Appeal Process**Article VIII**

Students receiving citations or penalties resulting from alleged violations of the Traffic and Parking Policy may do any of the following:

- A. Pay the fine.
- B. File written appeal with the Director of Counseling Services within three business days of receipt of a citation. A ruling on the appeal will be made within five business days and the student will be notified in writing.
- C. Students dissatisfied with the decision of the Director of Counseling Services may make further appeal to the Chief of Administrative Services within three business days.

CAMPUS SAFETY

Most class rooms and student areas on campus have red emergency cards for quick reference. The cards include evacuation plans and designated meeting areas, emergency medical protocols and what to do & who to contact for different levels of emergencies, and a checklist for the most common types of emergencies; fire, bomb threats, severe weather, emergencies calling for shelter in place, earthquakes, and lock-down situations.

Discovery of a Fire

Immediately give the alarm by shouting "Fire! Fire! Fire!" and proceed to pull the nearest fire alarm. Notify the switchboard operator by dialing ext. 0 or the Office of Public Safety and Security by dialing ext. 7050. When the building fire alarm sounds, walk quickly to the nearest exit and alert others to do the same. Once outside, report to the designated evacuation meeting area for the building you are evacuating.

Campus "LOCK DOWN"

If ever a dangerous situation develops that poses a serious threat to the college and jeopardizes the safety of students or employees, the President or his/her designee will initiate a campus "Lock Down." "Lock Down" will be announced either by college personnel in a building or over the public address system and will remain in effect until terminated by law enforcement. Follow these simple guidelines:

- Get to the nearest room, as quickly and quietly as possible.

If outside and you cannot safely get inside a building, find the closest hiding place and stay there until an all-clear is issued.

- Close, lock and barricade doors. Turn off all lights and electrical devices (radios, computers, monitors, projectors, etc.). Close all blinds, drapes and shades.
- Silence all cell phones. Do not use cell phones except to communicate with law enforcement.
- Stay out of sight and find cover behind concrete walls, desks, cabinets, etc.
- Do not evacuate for a fire alarm unless you see fire or smoke or can verify that there is indeed a fire. It may be a ploy to get you in the open.
- Follow all orders from law enforcement and stay calm.
- Upon seeing intruders or victims, call 9-1-1 and report as much information as possible without attracting attention.

Police K-9 Unit Patrol

Wayne Community College may be patrolled by Police K-9 Units. All staff, students, visitors and vehicles on WCC property are subject to K-9 exposure.

WCC STUDENT GOVERNMENT ASSOCIATION CONSTITUTION**Preamble**

We, the students of Wayne Community College, in order to foster a spirit of cooperation and sense of community among students, faculty, staff, and other community residents, coordinate and regulate student activities, maintain a high standard for the college by upholding high standards of personal conduct, and develop good citizens through practical experiences, do hereby establish this Constitution for the Student Government Association of Wayne Community College.

Article I

Name - The name of this organization shall be the Student Government Association (SGA) of Wayne Community College.

Article II

Purpose - The Student Government Association of Wayne Community College shall serve as the official organization conducting the affairs of its members. The Student Government Association shall provide forums for students to engage in out-of-class student development activities and shall serve as direct liaison to the administration of the college.

Article III

Principles and Policies - The Student Government Association shall at all times uphold the principles and policies of Wayne Community College.

Article IV

Membership - The membership shall consist of all students who pay the student activity fee.

Article V

Administration - The Student Government Association shall be divided into two branches: Legislative and Executive.

- Section A. The General Assembly shall serve as the Legislative Branch of the Student Government Association.
- Section B. The Executive Board of Officers shall serve as the Executive Branch of the Student Government Association.

Article VI

Meetings - The General Assembly and the Executive Board of

Officers of the Student Government Association shall hold four monthly meetings per semester.

- September and January meetings will be held on a Monday at 12 noon.
- October and February meetings will be held on a Tuesday at 4:00 p.m.
- November and March meetings will be held on a Wednesday at 12 noon.
- December and April meetings will be held on a Thursday at 4:00 p.m..

Meeting times will alternate to allow for all General Assembly representation. Meeting locations will be determined by SGA advisors. The President of the SGA may call for an unscheduled SGA meeting with at least seven calendar days notification. Robert's Rules of Order will be used and all questions of order shall be decided by Robert's Rules of Order Revised.

Article VII

Amendments - Amendments to the constitution and/or changes to the bylaws must be requested in the form of a motion during a Student Government Association meeting and may be requested by any member of the General Assembly or Executive Board of Officers. Amendments must be tabled for at least one meeting before the SGA can act on them. All amendments to the constitution or changes to the bylaws must be approved by a two thirds (2/3) vote of the General Assembly and Executive Board of Officers present during the meeting.

STUDENT GOVERNMENT ASSOCIATION BYLAWS

Article I. Legislative Branch (General Assembly)

- A. Membership** - The Student Government Association General Assembly shall consist of a minimum of one (1) and a maximum of two (2) voting representatives from each student club officially registered with the Student Government Association Executive Board of Officers and Student Activities Director. Selection or election of General Assembly Representatives shall be determined by each student club advisor. These representatives shall have full voting privileges during the Student Government Association meetings. Their names shall be submitted to the Executive Board of Officers and the Student Activities Director prior to the first meeting of the Fall Semester and updated as often as necessary.
- B. Attendance** - Representatives of the General Assembly must maintain regular attendance at all Student Government Association Meetings. In order for a club to be eligible to receive seed money, at least one representative must attend 50 percent of the Student Government Association Meetings. Any representative who is not accounted for during the roll call by the Executive Board Secretary will be counted as non present for that meeting.
- C. Representative Votes** - Proxy votes shall be accepted at the discretion of the Executive Board of Officers if they are typed and signed by both the student representative and the student's advisor prior to the start of the Student Government Association Meeting.
- D. Quorum** - At least 1/3 representation from the General Assembly must be present during SGA meetings in order to conduct a vote.
- E. Vacancies** - All vacancies should be filled within 30 days of the announcement of the vacancy by the club or club advisor.
- F. Grade Point Average** - All General Assembly Representatives shall maintain a minimum overall cumulative GPA of 2.00. Club advisors will be responsible for obtaining and keeping an

accurate record of representatives' GPA averages. If a representative's GPA falls below the minimum 2.00 requirements, the club advisor must remove the representative from the General Assembly and replace him or her with a new representative who meets the minimum qualifications. These changes must be presented in writing within thirty days to the Executive Board of Officers and the Student Activities Director.

- G. Code of Conduct** - Because General Assembly representatives are in a leadership capacity, they should conduct themselves in a proper manner at all times. Any action on the part of a representative that would bring discredit to the General Assembly, Student Government Association, student body, faculty, staff, administration or Wayne Community College in general, whether he or she is serving in an official capacity or not, could result in dismissal from office by action being brought before the Executive Board of Officers, advisors, and WCC administration.

Article II. Executive Branch (Executive Board of Officers)

- A. Membership** - The Executive Board of Officers is made up of the President, Vice President, Secretary, standing committee chairpersons, and advisors. These officers and advisors are considered the Executive Board of the full Student Government Association and ex-officio members of all committees.
- B. Attendance** - The Executive Board of Officers is expected to attend all Executive Board and Student Government Association meetings. Officers must have all absences approved by the SGA advisors.
- C. Term of Office** - Each officer is elected to office for a term of one academic year and may not serve more than two consecutive years.
- D. Duties, Powers, Responsibilities, Privileges**
1. President - The President shall:
 - a. be the official spokesperson for the SGA.
 - b. preside over all meetings of the Executive Board and Student Government Association.
 - c. serve as a non-voting member of the Board of Trustees of Wayne Community College.
 - d. not serve as an officer of any other organization and or club, while in office.
 - e. appoint all committee chairpersons except chairperson of the Nominating Committee.
 - f. meet with the advisor(s) of the SGA on a regular basis.
 - g. receive a scholarship in the form of a stipend equal to one-fourth of the in-state tuition reimbursed monthly during the term of office. This amount does not include student fees.
 - h. not vote in either the Executive Board or Student Government Association meetings unless to break a tie vote.
 - i. attend all state and district SGA meetings.
 - j. be responsible for items appearing on the agenda to come before the Executive Board and Student Government Association.
 - k. be responsible to assume all deadlines are being met by all committee chairpersons.
 - l. foster a spirit of unity among the General Assembly and Executive Board, committees, and the student body in general.
 - m. perform all other duties assigned by the General Assembly and/or Executive Board.
 2. Vice President - The Vice President shall:
 - a. serve in any capacity the President is unable to attend.
 - b. serve as parliamentarian for the Student Government

- Association and Executive Board of Officers.
- c. assume all duties, responsibilities, powers, and privileges of the President, if the President's office is vacated.
 - d. receive a scholarship in the form of a stipend equal to one-fourth of the in-state tuition reimbursed monthly during the term of office. This amount does not include student fees.
 - e. assist the President in his or her duties and responsibilities.
 - f. be ex-officio member of all standing committees.
 - g. be responsible for all physical arrangements at all Student Government Association and Executive Board meetings.
 - h. meet with the President and advisors on a regular basis.
 - i. attend all state and district SGA meetings.
 - j. foster a spirit of unity among the General Assembly and Executive Board, committees, and the student body in general.
 - k. perform all other duties assigned by the General Assembly, Executive Board and/or President of the SGA.
3. Secretary - The Secretary shall:
- a. be responsible for all written communication, maintenance of records, and the publication of minutes online for the Student Government Association and the Executive Board.
 - b. record attendance and minutes at both Student Government Association and Executive Board meetings.
 - c. attend all state and district SGA meetings.
 - d. receive a scholarship in the form of a stipend equal to one-fourth of the in-state tuition reimbursed monthly during the term of office. This amount does not include student fees.
 - f. meet with the President, Vice President and advisors on a regular basis.
 - g. perform all other duties assigned by the General Assembly, Executive Board and/or President of the SGA.

E. Standing Committees

1. Public Information chairperson shall:
 - a. solicit help and support from other members of the SGA and student body to create posters and informative literature for upcoming events.
 - b. submit for publication all necessary SGA news to be printed on the CamNet in a timely matter.
 - c. communicate with WCC public information officer to develop effective media releases before submission to media sources.
 - d. chair any committee meeting deemed to be a public information related project.
 - e. give a report at all SGA meetings on committee activities.
 - g. receive a scholarship in the form of a stipend equal to one-fourth of the in-state tuition reimbursed monthly during the term of office. This amount does not include student fees.
2. Special Populations chairperson shall:
 - a. recognize all special populations on the WCC campus, and give a report at all meetings related to the status of special needs students. Special populations includes, but is not limited to minorities, single parents, physically impaired, visually impaired, and those with various mental or physical disabilities.

- b. reaffirm, through planning of student activities, WCC's policy related to equal opportunities: (Wayne Community College is an Equal Opportunity/Affirmative Action College and accommodates the needs to individuals with disabilities/)
 - c. chair any committee meeting deemed to be a special populations concern.
 - d. relay any information to the public information officer that is deemed necessary to report to the student body of WCC related to special populations.
 - e. receive a scholarship in the form of a stipend equal to one-fourth of the in-state tuition reimbursed monthly during the term of office. This amount does not include student fees.
3. Local Interactions chairperson shall:
- a. chair any committee meeting deemed to be a local interaction concern.
 - b. be aware of and report on situations and opportunities available both on campus and in the community at large that are deemed advantageous or of importance to the student body of WCC.
 - c. maintain communication with the Goldsboro Chamber of Commerce related to identifying service opportunities in the Goldsboro/Wayne area.
 - d. identify, plan, and organize participation in events on and off campus that are related to the service of the community population as well as the WCC student body.
 - e. relay any local interactions information to the public information officer that is deemed necessary to report to the student body.
 - f. receive a scholarship in the form of a stipend equal to one-fourth of the in-state tuition reimbursed monthly during the term of office. This amount does not include student fees.

F. Vacancies - Vacancies may occur automatically due to voluntary withdrawal from the college, suspension from the college, failure to register as a student, written resignation, cannot meet the minimum GPA requirements, any violation of the code of conduct, and/or cannot uphold their oath of office to WCC. Any vacancy in the President, Vice President, or Secretary position must be filled within 30 days of the vacancy. Chairperson vacancies will be filled at the discretion of the Executive Board of Officers and SGA advisors. The following procedures will be taken to fill a vacancy.

1. The vacancy must be announced to all students via official college e-mail, student notification systems, posters and flyers around campus.
2. Once the vacancy is announced, all interested applicants who meet the minimum qualifications for the position will be given one week to fill out and return the SGA application packet. Applications will be available in the Student Activities office to pick up the day the vacancy is announced and must be returned to the Student Activities office by 5:00 P.M. on the application deadline.
3. Interviews will be scheduled by the Executive Board. The Executive Board has 48 hours to vote and announce who will fill the office. A majority vote is required to make the decision official. The SGA President will vote only to break a tie or split decision.

G. Grade Point Average - All Executive Board Officers shall maintain a cumulative and semester grade point average of 2.50.

1. If the semester GPA falls below 2.50, the officer will be placed on probation for one academic semester.

2. If the semester GPA falls below 2.00, the officer must be removed from office.
3. All officers shall maintain a minimum of nine semester hours each academic semester. If an officer drops below nine hours, the officer will be removed from office.

H. Code of Conduct - Because Executive Officers are in a leadership capacity, they should conduct themselves in a proper manner at all times. Any action that would bring discredit to the General Assembly, Student Government Association, student body, faculty, staff, administration or Wayne Community College in general, whether he or she is serving in an official capacity or not, could result in dismissal from office by action being brought before the Executive Board of Officers, advisors, and WCC administration.

I. Candidates, Filing Procedures, Election

1. Candidates
 - a. All Executive Officer candidates must have a 2.50 cumulative grade point average at the time of petitioning for an office.
 - b. All candidates must have been enrolled as a curriculum student at least one (1) semester prior to date of petition.
2. Filing Procedures
 - a. All candidates must complete a SGA Officer Application which can be picked up in the Student Activities office. Applications must be submitted by 5:00 P.M. on the day of the application deadline. No applications will be accepted late.
 - b. Eligible candidates who meet the minimum requirements to run for an office will be notified within 72 hours following the application deadline. Eligible candidates will have two weeks to campaign for office.
 - c. All eligible candidates must participate in an open forum which will be open to the student body and scheduled by the SGA advisors.
3. Elections
 - a. SGA advisors will determine the date for the election. Elections must be completed by the end of the last week in April in case a runoff election is required.
 - b. Election results will be announced within 48 hours following the conclusion of the election

J. Oath of Office

1. Executive Officers- Executive Officers shall take their oath of office after the Board of Trustees meeting in March but prior to the last day of the spring semester. **The President cannot take their oath of office until after the Board of Trustees Meeting in May.**
2. The oath of office shall be as follows: I pledge to uphold the Student Government Association's Constitution and Bylaws and to abide by the regulations and policies as prescribed by the Trustees and Administration of Wayne Community College.

TOBACCO FREE

Wayne Community College is concerned with the health, safety and wellness of all employees, students and visitors to the campus. Being aware of the health hazards associated with smoking and the use of other tobacco products, the College provides a smoke-free and tobacco-free environment.

As of August 1, 2009 no smoking or use of tobacco products is permitted on the WCC campus. This includes all buildings, facilities, College vehicles, walkways, out-of-door areas, campus grounds and parking lots.

For College programs and courses offered off campus in public or private locations, the instructional area shall be smoke-free and tobacco-free, and to the extent possible, the area immediately in front of the doors entering off-campus instructional areas shall be smoke free and tobacco free.

Enforcement of all College policies and procedures is the responsibility of all faculty and staff members.

Violation of this policy may subject students to disciplinary action as outlined in the Student Code of Conduct.



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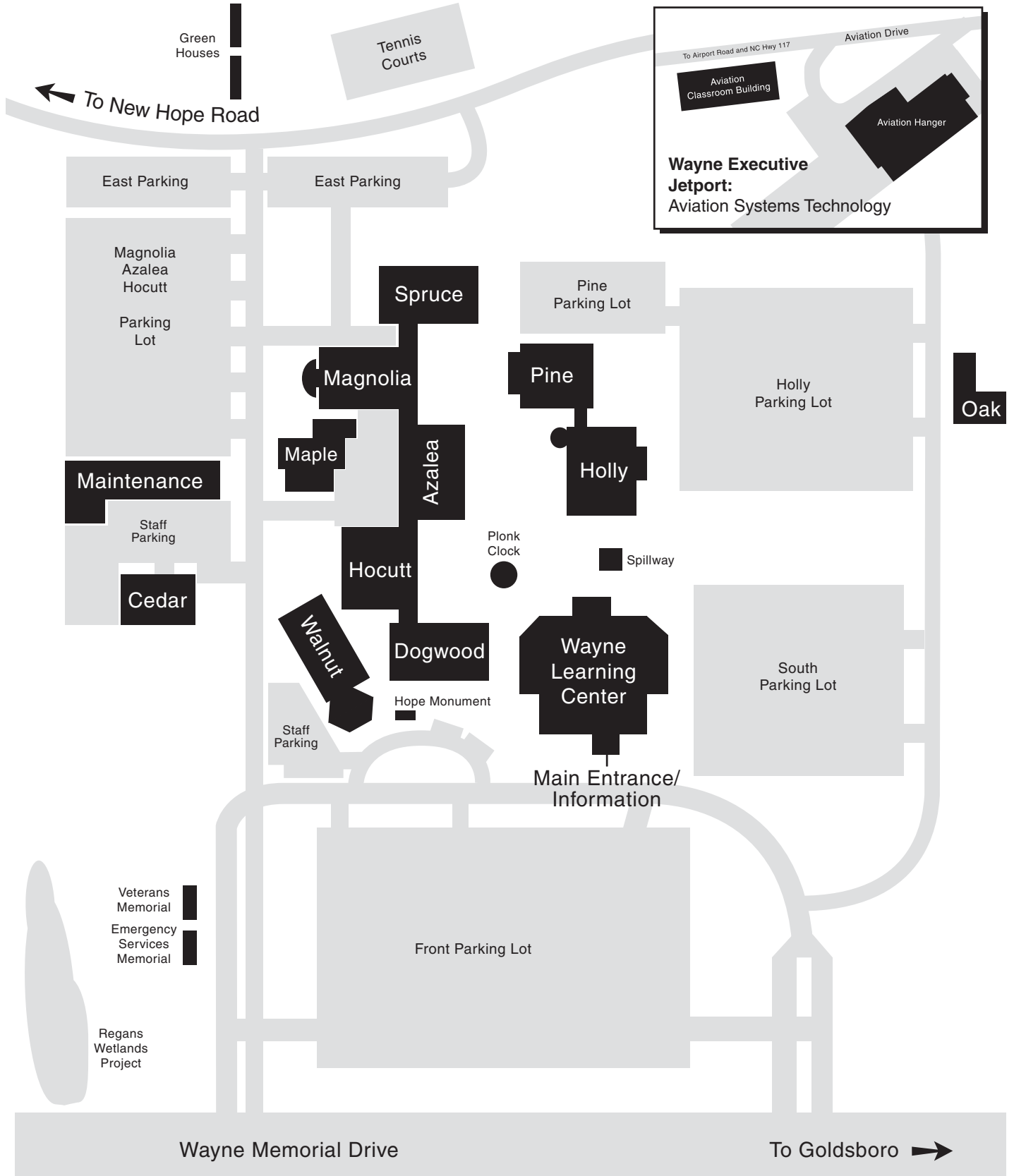
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