SOTHERMAL COMMUNITY COLLEGE

CATALOG2011-2013



WELCOME

MESSAGE FROM THE PRESIDENT

Welcome to Isothermal Community College...a community focused on a common mission of improving lives through learning. Our focus on learning charts the course for our continued journey to be the benchmark for excellence in learning, innovation, service and economic development. Faculty, staff and students are challenged to demonstrate commitment to the "circle" of values that we embrace— Community, Innovation, Responsibility, Collaboration, Leadership and Excellence. Our collaborative efforts communicate how we have created and continue to promote a climate that nurtures and supports each learner. We are delighted that you have decided to join us on our journey and challenge you doing your time with us to excel in your quest for learning. We look forward to an exciting and mutually beneficial learning experience.



Dr. Myra B. Johnson

ISOTHERMAL COMMUNITY COLLEGE BOARD OF TRUSTEES

APPOINTED BY RUTHERFORD COUNTY BOARD OF EDUCATION

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WNCW-FM Public Radio Station		그리고 아이들이 그리고 있는데 모르지 말 그 모든 일을 하고 있었다. 아이들에 되었다면 아이들에게 그렇게 그 그리고 있다면 그리고 있다면 그리고 있다. 이 그리고 있는데 그리고 있다. 그리고 있다.
Campus Enforcement	Information Technology	Robby Walters, Director
	WNCW-FM Public Radio Station	
	Campus Enforcement	Officer Andy Millard and Officer Daniel Elliot
- Service of Service o	Library Services	

ACADEMIC CALENDAR 2011-2012

Fall Semester 2011	(80 Days)	
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August 15	Monday	Convocation - All Faculty & Staff
August 16	Tuesday	Professional Development
August 17-18	Wednesday-Thursday	Last Chance Registration-Fall Semester
August 19	Friday	First Day of Classes, Schedule Adjustments
August 22	Monday	Schedule Adjustments
August 30	Tuesday	Last Day for Official Drop with 75% Refund
September 5	Monday	Labor Day Holiday
October 7	Friday	Fall Break - Faculty, Students
October 13	Thursday	Grub Day
October 18	Tuesday	Academic Advising Day (No Classes)
November 17	Thursday	Last day to drop with "W"
November 23-25	Wednesday, Thursday, Friday	Thanksgiving Break College Closed
December 16	Friday	Last Day of Classes
December 19	Monday	Faculty Checkout/Grade Rolls
December 22-Jan. 2		Winter Break College Closed

Spring Semester 2012 (80 Days)

January 3	Tuesday	Faculty & Staff Work Day
January 4-5	Wednesday-Thursday	Last chance Registration-Spring Semester
January 6	Friday	First Day of Classes, Schedule Adjustments
January 9	Monday	Schedule Adjustments
January 16	Monday	Martin Luther King Holiday
January 18	Wednesday	Last Day for Official Drop with 75% Refund
February 8	Wednesday	Professional Development (No Classes)
March 27	Tuesday	Academic Advising Day (No Classes)
April 6 & 9	Friday & Monday	Spring Holidays Staff, Faculty, Students
April 10-13	Tuesday-Friday	Spring Break - Faculty, Students (4 days)
April 19	Thursday	Last day to drop with "W"
April 24	Tuesday	Sport's Day
May 9	Wednesday	Last Day of Classes
May 10	Thursday	Faculty Checkout/Grade Rolls
May 11	Friday	Faculty-Student Break/REaCH Graduation
May 14	Monday	Graduation (Curriculum)
May 15	Tuesday	Graduation (Adult High School & GED)

Summer Semester 2012

May 15	Tuesday	Registration - Summer Semester
May 16	Wednesday	First Day of Classes, Schedule Adjustments
May 22	Tuesday	Last Day for Official Drop with 75% Refund
May 28	Monday	Memorial Day Holiday
July 4	Wednesday	Independence Day Holiday
July 12	Thursday	Last day to drop with "W"
July 25	Wednesday	Last Day of Classes
July 26	Thursday	Faculty Checkout/Grade Rolls
July 27-August 10	Friday-Friday	Semester Break-Faculty, Students

ACADEMIC CALENDAR 2012-2013

Monday

Fall Semester 2012	2 (80 Days)
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August 13	Monday	Convocation - All Faculty & Staff
August 14	Tuesday	Professional Development
August 15-16	Wednesday-Thursday	Last Chance Registration-Fall Semester
August 17	Friday	First Day of Classes, Schedule Adjustments
August 20	Monday	Schedule Adjustments
August 28	Tuesday	Last Day for Official Drop with 75% Refund
September 3	Monday	Labor Day Holiday
October 12	Friday	Fall Break - Faculty, Students
October 17	Wednesday	Grub Day
October 30	Tuesday	Academic Advising Day (No Classes)
November 15	Thursday	Last day to drop with "W"
November 21-23	Wednesday, Thursday, Friday	Thanksgiving Break College Closed
December 14	Friday	Last Day of Classes

Faculty Checkout/Grade Rolls

Winter Break College Closed

Spring Semester 2013 (80 Days)

December 17

December 21-Jan. 1

come management money for		
January 2	Wednesday	Faculty & Staff Work Day
January 3-4	Thursday - Friday	Last chance Registration-Spring Semester
January 7	Monday	First Day of Classes, Schedule Adjustments
January 16	Wednesday	Last Day for Official Drop with 75% Refund
January 21	Monday	Martin Luther King Holiday
February 6	Wednesday	Professional Development (No Classes)
March 19	Tuesday	Academic Advising Day (No Classes)
March 29-April 1	Friday & Monday	Spring Holidays Staff, Faculty, Students
April 2-5	Tuesday-Friday	Spring Break - Faculty, Students (4 days)
April 11	Thursday	Last day to drop with "W"
April 18	Thursday	Sport's Day
May 9	Thursday	Last Day of Classes
May 10	Friday	Faculty Checkout/Grade Rolls
May 13	Monday	Faculty-Student Break/REaCH Graduation
May 14	Tuesday	Graduation (Curriculum)
May 15	Wednesday	Graduation (Adult High School & GED)

Summer Semester 2013

May 15	Wednesday	Registration - Summer Semester
May 16	Thursday	First Day of Classes, Schedule Adjustments
May 22	Wednesday	Last Day for Official Drop with 75% Refund
May 27	Monday	Memorial Day Holiday
July 4	Thursday	Independence Day Holiday
July 11	Thursday	Last day to drop with "W"
July 24	Wednesday	Last Day of Classes
July 25	Thursday	Faculty Checkout/Grade Rolls
July 26-August 9	Friday-Friday	Semester Break-Faculty, Students

INTRODUCTION

HISTORICAL SKETCH

Founded in 1964, Isothermal Community College serves Rutherford and Polk counties in the beautiful foothills of western North Carolina. Isothermal, named for the region's steady climate, is a comprehensive, two-year public institution and is a part of the North Carolina Community College System. Isothermal's mission is to "improve life through learning."

The main campus is on 142 acres in Spindale. The Polk campus is in Columbus. The Spindale campus, perched on the shore of an 11-acre lake, is home to The Foundation Performing Arts and Conference Center, the area's premier venue for the arts and other special events. The college also owns and operates WNCW 88.7, an award-winning public radio station that can be heard in parts of five different states: North Carolina, South Carolina, Virginia, Tennessee and Georgia.

In May 2007, the college's Board of Trustees appointed Dr. Myra Johnson as the institution's president. Johnson, formerly Isothermal's vice president of Academic and Student Affairs, replaced Dr. Willard L. Lewis, III, who retired from the post at the end of June after 21 years at the college. Johnson had previously served 23 years at Isothermal.

In January 2008, the doors were opened on the new Willard L. Lewis III Lifelong Learning Center. The two-story building of approximately 24,000 square feet houses classrooms, office space, high-tech distance learning facilities and the Rutherford Early College High School. The center will ultimately host many of the collaborative efforts for higher learning Isothermal has with Western Carolina, Gardner-Webb and Appalachian State universities.

Interest in a community college for Rutherford and Polk counties began even before a statewide community college system was established. In 1963, the General Assembly passed Chapter 115A, General Statutes of North Carolina, establishing the Department of Community Colleges, and shortly thereafter the Rutherford County Commissioners appointed a committee to study and promote plans for a community college in the county. The preliminary report, submitted in March 1964, recommended that the proposed college serve Rutherford and Polk counties, that a site south of Spindale be chosen, and that the college be financed by a bond issue and a special tax levy. On Sept. 5, 1964, Rutherford County citizens voted by a margin of more than 16 to 1 in favor of a \$500,000 bond issue for construction of the college, to be matched by state funds, and a property tax increase to pay the county's portion of the operating costs. The college was chartered on Oct. 1, 1964, by the State Board of Education. The first meeting of the Board of Trustees was held on Nov. 17, and on Nov. 23 the Board approved the name "Isothermal Community College." Fred J. Eason was chosen by the Board as the College's first president on Dec. 22. On July 1, 1965, the Industrial Education Center, which had been operating since 1962 as an extension of Gaston Technical Institute, became the vocational and technical division of Isothermal Community College. The College thus began operation with 66 students, some of whom received the first diplomas issued by Isothermal in exercises that August. August 1965 also marked the culmination of a fundraising drive by Rutherford and Polk citizens and businesses for the purchase of land for the Spindale campus.

Until the new campus was ready, the vocational-technical, college transfer (begun in Sept. 1966) and adult education divisions were scattered in a number of temporary locations in Avondale, Spindale and Caroleen. College transfer and vocational-technical education each had about 100 students. The adult education program was boosted by the creation of the High School Diploma program in May 1967. That same year, Isothermal's Polk County program began with continuing education courses in Tryon. The first three buildings on the Spindale campus (Administration, Library and Continuing Education) opened on April 8, 1968, and the College's first full-fledged graduation exercises were held on Aug. 30. The lake and initial landscaping of the campus were completed by April 27, 1969, when the College's charter was presented. By that time, 554 full-time students were enrolled. On Jan. 11, 1970, the College was accredited by the Southern Association of Colleges and Schools.

Expansion continued with the opening of a new Occupational Education Building in 1972. A satellite program for Polk County was approved in September 1974, and in November 1974 Rutherford County voters passed a \$1.8 million bond issue for additional construction on the Spindale campus. This enabled construction of a new vocational building with electronics facilities which opened in September 1978, and the student center/physical education building which opened in the spring of 1979. Both buildings were dedicated on October 21, 1979. President Eason retired effective June 30, 1978, and the Board of Trustees selected Dr. Ben E. Fountain, Jr. as his successor. Dr. Dillard L. Morrow served as acting president until Dr. Fountain could assume his duties in September.

With help from local business and industry, the Individualized Instruction Center opened in the fall of 1979, and the marble marker at the entrance to the campus was completed in November 1979. Generous support was also evident in the creation of the Robert W. Eaves Outstanding Teacher Award, established in 1982 by the widow of the noted Rutherford County educator. The Polk County Campus also progressed, with the initiation of an independent study program and college transfer courses in 1976, and attainment of classroom space in the old Jervey-Palmer Building in Tryon. A permanent site for the campus became available in October 1982 when the Polk County Commissioners granted the college 10 1/2 acres near St. Luke's Hospital. This new site was dedicated on July 25, 1983. Construction of the new facility was completed in the fall of 1989.

Dr. Willard L. Lewis, III was appointed President on June 9, 1986 following the retirement of Dr. Fountain (1985) and the interim service of Dr. G. Herman Porter. Under the leadership of Dr. Lewis, further expansion of the Spindale campus included the completion of the High Tech Center (1988) which housed drafting, broadcasting, advertising/graphic design and electronics engineering. A second major building program resulted in The Foundation Performing Arts and Conference Center. This 61,216 square-foot facility opened in November of 1999 with a performance by the North Carolina Symphony Orchestra.

Beginning in the 1990's and continuing to date, in conjunction with a reexamination of mission and philosophy, the college has pursued a transformation in culture from the teaching paradigm to the learning paradigm. In seeking ways to improve learning, the college dedicates resources in support of cooperative learning in the classroom as part of an ongoing commitment to the development of a learning centered environment.

COLLEGE MISSION, VALUES, AND VISION

OUR MISSION

Isothermal Community College exists to improve life through learning.

OUR VALUES

In improving life through learning, we recognize and accept our pivotal leadership role by valuing:

- · a shared commitment to the well-being and enrichment of individuals
- · lifelong opportunities for personal and professional growth
- responsibility as a catalyst for positive economic development, innovation, community growth, creativity, and the arts
- · a climate of integrity, accountability, and respect for individuals
- · a culture of collaboration and communication
- · achievement realized through perseverance, critical thinking and personal responsibility for learning
- · diversity and the exchange of ideas
- · excellence in programs and services
- · assessment and the spirit of reflection
- . the elimination of barriers to learning
- · the learning college culture

OUR VISION STATEMENT

To be the benchmark for excellence in learning, innovation, service, and economic development.

OUR VIVID DESCRIPTION

- · Preparing learners for future success in a career, further education, and personal enrichment
- Providing cutting edge learning and technology
- · Providing choices in support services and delivery methods
- · Supporting professional development opportunities
- . Involving the learner in his or her own learning process(es)
- . Encouraging and modeling the effective and sustainable utilization of resources
- . Working collaboratively with public education, and the community in meeting local educational goals
- · Establishing partnerships to advance excellence in learning
- · Maintaining a reputation of excellence that ensures the prestige of our graduates
- · Encouraging an entrepreneurial spirit across all levels of the college

Isothermal Community College, a member of the North Carolina Community College System, is a comprehensive, two-year, public institution that serves the individuals in Rutherford and Polk Counties. The College offers individual courses and certificate, diploma and degree programs that enable students to transfer to four-year institutions or to acquire skills for new or continued employment, as well as to function effectively as citizens in our society. In addition, the College provides training for area business and industry, personal enrichment courses, remedial and developmental courses and community service activities.

Isothermal Community College shall be open to all eligible individuals who can benefit regardless of age, gender, socioeconomic status, ethnic origin, race, veteran status, religion or disabilities. The essence of the College's efforts shall be to contribute, in cooperation with other local educational systems and institutions, to a higher quality of life in the community it serves.

ACCREDITATION

Isothermal Community College is accredited by the Commission on Colleges of the Southern Association of Colleges and Schools to award associate degrees.

Inquiries relating to the accreditation status of the College may be made to Commission on Colleges, Southern Association of Colleges and Schools, 1866 Southern Lane, Decatur, Georgia 30033-4097, Telephone number 404-679-4501.

Please direct inquiries regarding college admission information to:

Admissions Office Isothermal Community College 286 ICC Loop Road, P.O. Box 804 Spindale, North Carolina 28160-0804 Telephone: 828-286-3636 ext 288

THE ISOTHERMAL DISTINCTION

Students who complete programs at Isothermal Community College are expected to be able to function effectively as contributing citizens of our society. Our programs, regardless of their content areas, are designed to enable graduates to achieve the following general competencies:

- Communicate effectively through writing, reading, speaking, listening, and through demonstration of information literacy
- Analyze problems and make logical conclusions
- · Demonstrate positive interpersonal skills through cooperative learning and group interaction
- Demonstrate quantitative competencies
- Demonstrate basic computer skills
- · Perform technical skills in their chosen occupations

Achieving these competencies requires a two-fold commitment involving the satisfaction of certain expectations on the part of both Isothermal and its students.

WHAT STUDENTS CAN EXPECT OF ISOTHERMAL

In their commitment to learning and to the achievement of a true learning-centered community, Isothermal personnel will:

- Meet student needs by demonstrating professional, friendly, and courteous service in all aspects of student life
- Maintain high professional and academic standards
- Serve as role models in the development of leadership skills
- · Respect diversity and treat all students fairly
- . Be available to students and helpful with student problems
- · Communicate clear learning objectives and expected outcomes
- Provide timely feedback in the assessment of learning outcomes
- * Stay current in subject matter
- · Practice effective teaching/learning strategies that promote critical thinking

WHAT ISOTHERMAL EXPECTS OF STUDENTS

In their commitment to learning, students will:

- · Accept responsibility for learning
- · Attend and participate in all classes
- · Complete required exercises and assignments as directed
- · Develop a time management plan that includes adequate time for study
- Maintain an open-minded attitude toward learning
- · Strive to become independent critical thinkers
- · Seek help as needed from appropriate sources
- · Be respectful and considerate of others
- Assume responsibility for knowing and adhering to all college policies
- Acknowledge that learning how to learn is the ultimate objective of education
- Recognize that struggle and discomfort often precede the rewards that accompany goal completion and success

With this commitment on the part of all concerned, an exciting partnership will grow and thrive, thus creating a community of learners whose mission is to improve life through learning.

NCCCS PERFORMANCE MEASURES FOR ISOTHERMAL COMMUNITY COLLEGE

Over the past three decades, the North Carolina Community College System has utilized numerous processes to ensure public accountability for state monies spent. These processes have included fiscal audits, program audits, institutional effectiveness plans and program review.

Since the 1999-2000 fiscal year, a system of accountability based on 12 performance measures had been the cornerstone of public accountability. 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, and as a result, the number of performance measures was reduced to 8, and performance funding will be based on all 8 measures. Isothermal Community College is committed to using this system to continuously monitor, evaluate, and improve the quality of programs offered.



In 2009, Isothermal met 7 of the 8 performance measures as shown on the following chart.

Performance Measure	State Performance Standard	Isothermal CSF Data	Standard Met
Progress of Basic Skills Students	75%	86%	Yes
Passing Rates on Licensure/ Certification Exams for First-time Test Takers (aggregate rate)	80%	79%	No
Performance of College Transfer Students	83%	89%	Yes
Passing Rates in Developmental Courses	75%	84%	Yes
Success Rate of Developmental Students in Subsequent College-level Courses	80%	87%	Yes
Student Satisfaction of Completers and Non- completers	90%	99%	Yes
Curriculum Student Retention, Transfer and Graduation	65%	71%	Yes
Client satisfaction with Customized Training	90%	96%	Yes

Data Source: 2010 NCCCS Critical Success Factors Report

OFFICE HOURS

The administrative offices of the College are normally open Monday through Friday from 8:00 a.m. to 4:30 p.m. Hours may vary during summer or breaks.

GENERAL CLASS HOURS

In order to provide educational opportunities to the majority of the residents of Rutherford, Polk and contiguous counties, most academic programs are offered during both day and evening hours. Day classes are normally scheduled from 8:00 a.m. through 4:45 p.m. Monday through Friday. Evening classes usually are scheduled from 5:00 p.m. through 10:15 p.m. Monday through Thursday evenings. A limited number of special classes are offered on Friday evening and on Saturday.

VISITS TO THE CAMPUS

Visitors are always welcome. An information desk is maintained on the main floor of the administration building Monday through Friday. The receptionist will contact the Director of Enrollment Management to provide general information and a tour of the campus when requested, or you may arrange a tour by writing or calling the Director of Enrollment Management. When writing, please specify the time and the number of persons in your party.

NONDISCRIMINATION STATEMENT

Isothermal Community College provides educational and employment opportunities without regard to veteran status, race, color, religion, age, gender, national origin, or disability. Isothermal Community College is committed to this policy. Isothermal Community College supports the protection available to members of its community under all applicable Federal Laws including Title VI and Title VII of the Civil Rights Act of 1964, Equal Pay Act of 1963, Title IX of the 1972 Education Amendments, Executive Order 11246 as amended by 11375, Title VI (section 799A) and Title VIII (section 8451) of the Public Health Service Act, Age Discrimination Act, Americans With Disabilities Act of 1990 and the Rehabilitation Act of 1973.

Any member of the Isothermal Community College Community believing they have been discriminated against or desiring more information concerning these provisions and/or grievance procedures should contact:

> Stephen Matheny, Vice President of Administrative Services Isothermal Community College P.O. Box 804 Spindale, NC 28160-0804 (828) 286-3636 ext. 202

FACILITIES

ADMINISTRATION BUILDING

Academic Development; Arts and Sciences; Faculty Assessment, Research, & Planning; Business Office; Computer Lab; Human Resources; Presidential Office Suite; Public Information Office; Web Master

APPLIED SCIENCES & TECHNOLOGY BUILDING

BLET; Computer Engineering Technology; Criminal Justice; Early Childhood; Electronics Technology; Foothills Nursing Consortium; Practical Nursing

BOOKSTORE

The College operates a bookstore where the student may purchase needed books and supplies with profits being used for college projects and services. The normal operating hours are 9:00 a.m. to 3:30 p.m. Monday through Friday and Tuesday 5:30 p.m. to 7:30 p.m. The bookstore also operates extended hours during Last Chance Registration and the first and second week of classes.

COMMUNICATIONS BUILDING

Advertising & Graphic Design; Campus Print Shop; Customized Training & Development Room; Electrical Technology; Broadcasting & Production Technology; WLOS; WNCW

THE FOUNDATION PERFORMING ARTS AND CONFERENCE CENTER

Located on the second and third floors of The Foundation Building, the Foundation Performing Arts and Conference Center plays host to an array of events, from concerts to wedding receptions. Cultural events include a variety of performance disciplines including dance, theatre, popular and classical music, family friendly variety shows, plays produced specifically for young audiences, as well as lectures and seminars. Programming is presented by the college and by community and regional based promoters. A listing of public events can be viewed on the facility web site www.FoundationShows.org The facility box office (828-286-9990) is located at the second floor entrance just off the North parking lot. The conference space is used for a variety of events including proms, weddings, sales seminars, trade shows, and reunions, as well as smaller meetings and retreats. Some special student ticket pricing is available for select events.

Ground Floor: Basic Skills/Adult High School/GED; Customized Training & Development; Continuing Education;
Defensive Driving Sage Truck Driving; Small Business Center; Visitor Information
Second & Third Floor: Box Office Performing Arts & Conference Center Seminar Rooms A & B; Stage

INFORMATION TECHNOLOGY BUILDING

IT Department; Mechanical Drafting Technology

LIBRARY (www.isothermal.edu/library)

The college library provides resources, services, and facilities to enhance and promote the teaching and learning process and to complement the resources of other libraries in the region. The library houses materials in print and a variety of non-print formats in the general collections and supports a local history collection, plus special collections in the Small Business Center in Learning Support and Retention Services. The library also maintains a reserved collection of professional development resources in support of the Learning College environment. Internet access is available using the public computers in the lobby or through the College's wireless networks. Library services for Polk County Campus students are provided through formal agreement with Polk County Public Library.

Through the library website, students may access a growing number of eBooks, periodical articles, reports, statistics, primary source documents, and movies provided through NC LIVE and other research databases. The website also provides links to reviewed general and course-specific Internet sites, helpful information such as research tips, examples of documentation styles, and access to more detailed information on library services for students, employees, and the community.

Library staff provide circulation, interlibrary loan, and reference and referral services; acquire and maintain print and electronic resources; offer individual and group instruction; and support a variety of equipment and software applications including assistive software products.

The college library is open to the community and is part of the CMC Library Consortium, a cooperative of academic, public and municipal libraries within Rutherford and Polk counties. The CMC Library Consortium maintains a web-based catalog, available at www.cmclibraries.org.

College Library hours: 7:45 am - 9:00 pm Monday - Thursday; 7:45 am - 4:15 pm Friday Holiday, Summer, and Semester Break Hours are Posted

LIFELONG LEARNING CENTER

Arts & Sciences Faculty; REaCH

MACHINING TECHNOLOGY BUILDING

Manufacturing Technology; Mechanical Engineering Technology

MAINTENANCE BUILDING

College Vehicle Reserve; Shipping & Receiving

STUDENT CENTER

Admissions Office; Advising Center; Arts & Sciences Dean; ASSET/COMPASS Placement Testing; Campus Bookstore; Campus Resource Officer; College Café; Cosmetology; Employee Fitness Center; Financial Aid Office; Gym & Pool; Learning Support and Retention Services; Physical Education; Student Activities; Student Services; Visitor Information

POLK COUNTY CENTER

The Polk County Center offers a limited number of credit courses. Students may choose to complete specialized course work at the Spindale campus or prepare for transfer to a four-year institution.

A wide variety of non-credit courses (continuing education) ranges from self-enrichment classes to those which offer training to volunteer firemen, rescue personnel, and allied health. Courses to improve occupational skills are offered as well. Adult Basic Education, Adult High School, and General Educational Development (GED) programs are available. English as a Second Language (ESL) classes are offered for persons whose native language is not English. Bulletins listing credit and non-credit courses are mailed out quarterly. News releases describing various courses and special events are placed in local newspapers. Polk Campus Preview appears weekly in the Tryon Daily Bulletin.

Library services for Polk County Center students are provided through formal agreement with Polk County Public Library.

The Polk County Center is fortunate to have dedicated volunteers actively participating in the Polk County Isothermal Community College Foundation, Inc. The Foundation has a significant role in fundraising, provides scholarship aid, and promotes Isothermal Community College in the community.

Regular hours at the Polk County Center are Monday through Thursday, 8:00 a.m. to 9:00 p.m., Friday from 8:00 a.m. to 4:00 p.m., and other prearranged times including weekends. Additional information may be obtained by visiting the campus or calling 828-894-3092.

Polk County Center - Isothermal Community College 1255 West Mills Street, Columbus, NC 28722

CURRICULUM CLASSES

A limited number of classes are offered for college credit through the Polk County Center.

CONTINUING EDUCATION

The Continuing Education Division provides educational non-credit opportunities for adults who desire to learn occupational skills, to upgrade their capabilities for professional success, or to enrich their personal lives. In order to accommodate a variety of student needs and interests, Continuing Education classes include computer training, Emergency Medical Technician (EMT), Firefighter Certification, preparation for state certification in Nurse Aide I & II and Medication Aide, and national certification in Phlebotomy, Clinical Medical Assistant and Patient Care Technician, as well as a wide range of special interest classes like creative arts, health and fitness, history and current events, and literature.

ADULT HIGH SCHOOL DIPLOMA PROGRAM

Isothermal Community College in cooperation with the Polk County Schools has developed an Adult High School Diploma Program which provides an adult the opportunity to complete high school. There are no fees for these classes.

Requirements for an adult high school diploma include:

- (1) Satisfactory completion of units in English, mathematics, social studies, sciences, and health,
- (2) Satisfactory completion of a variety of elective units.
- (3) Passing score on the North Carolina Competency Test.

Each student in the program arranges his own study schedule and proceeds at his own individual pace.

ADULT BASIC EDUCATION

Adult Basic Education is a program designed to improve skills in reading, writing and math. These skills are related to practical situations that adults deal with in everyday life. The Adult Basic Education instructors work closely with the Polk County Literacy Council which provides tutors for students desiring one-on-one instruction.

Day and evening classes are available. There is no charge for these classes.

Upon completion of the Adult Basic Education program, a student may enroll in the Adult High School Diploma or GED program. High School completion programs are held at the same times and places as the Adult Basic Education classes.

GENERAL EDUCATIONAL DEVELOPMENT PROGRAM (GED)

The GED is a high school completion program. The GED test is offered on the Spindale Campus. Students may enroll on the Polk Center to study and complete their practice tests. There is a charge of \$7.50 for the GED test.

A student must be a resident of North Carolina to take the actual GED test in North Carolina.

ENGLISH AS A SECOND LANGUAGE (ESL)

The Polk County Center has instruction four days and two evenings a week for those whose native language is not English. Instructors work with students in a lab-type setting which allows each student to proceed at his/her own pace. Specially trained volunteers help students to work with computer programs designed for ESL students. In addition, students learn basic computer skills. The college has had generous cooperation from Polk County Literacy Council and grants from the Polk County Community Foundation in setting up this program.

THE RUTHERFORDTON LEARNING CENTER

Nurse Aide EMT Lifelong Learning classes

WHITE HOUSE

Construction Trades

ADMISSIONS

www.isothermal.edu/admissions

ADMISSION REQUIREMENTS AND PROCEDURES

Isothermal Community College operates an "Open Door" admissions policy. Most programs require an approved high school diploma or its equivalent. To inquire about which programs do not require a high school diploma or its equivalent, please call Admissions, ext. 251.

High School Diplomas or equivalents must meet one of the following criteria to be accepted for admission into programs requiring a high school diploma:

. High School Diploma from a regionally accredited public or private high school

High School Diploma from a private or home school that is registered with the appropriate education agency such
as the North Carolina Department of Non-public Instruction

· GED or Adult High Diploma from a regionally accredited program

 High School Diploma from a coorespondence school that is regionally accredited, accredited by the Distance Education and Training Council (DETC), or part of a regionally accredited college or university

The following are specific requirements for degree, diploma, and certificate programs:

- 1. Complete an application for admission. (paper or online at www.isothermal.edu)
- 2. Submit official high school or GED transcript. (official= sealed from issuing institution)

 Submit official transcript(s) from all colleges and/or universities attended. (official= sealed from issuing institution)

Complete the ASSET or COMPASS placement test. Placement test scores should be no more than three years old.
 See below for waivers.

Applicants who have completed college level courses in English, reading, and mathematics at a regionally accredited institution with a grade of "C" or better may be exempt from the test upon evaluation by the Registrar's Office.

Also, placement testing may be waived with SAT scores of 500 or higher in math and 500 or higher in critical reading or verbal. ACT scores must be 21 or higher in English and 20 or higher in math. SAT and ACT scores should be no more than five years old. SAT and ACT scores may waive developmental courses. However, placement testing is required for placement in higher level college classes, e.g., Mat 162.

* Please note: Licensed Practical Nursing, Associate Degree in Nursing, and Surgical Technology programs have additional admissions requirements. Specific information regarding these requirements and deadlines can be obtained in the Learning Support and Retention Services or on the webpage, www.isothermal.edu/career/Health.Sciences.Advising.htm.

* Please note: Basic Law Enforcement Training also has additional admissions requirments.

Veterans and Veterans' Dependents receiving veterans' educational benefits must provide official transcripts (high school and college) of all education before certifications can be processed.

Students applying for financial aid must provide all transcripts (high school and college) as required by Admissions.

INTERNATIONAL STUDENT ENROLLMENT

GENERAL ADMISSION REQUIREMENTS - FOR ALL INTERNATIONAL STUDENTS

All international students must meet the general admission requirements for their program of study. In addition to general admission requirements, different categories of international students must submit different types of additional documents.

INTERNATIONAL CATEGORIES AND ADDITIONAL ADMISSION REQUIREMENTS

There are a variety of ways in which international students may apply to Isothermal Community College. Please determine which category below applies to you and then follow the steps noted there.

FI STUDENT VISA

For students who reside permanently in another country but wish to come to the USA for the sole purpose of attending college fulltime, tuition rates will be out-of-state. In addition to the general admission requirements noted above, you must also submit:

 Notarized Affidavit of Support (I-134) (can be found on the http://uscis.gov/graphics/index.htm website, under Immigration Forms) and a notarized bank statement showing current U.S. funds available to cover tuition and living costs all years of study applied for, Approximate costs per semester = \$5,300. (\$2,800 for tuition, \$500 for books/supplies, and \$2,000 for living costs) (subject to change depending on tuition rates each fall). *"Official" TOEFL scores (500 or above for the paper test, or 173 or above for the computerized test, or 61 or above for the internet test) OR SAT Scores (500 or higher for verbal and 500 or higher for math). If you are from a country whose first language is English, this requirement may be waived upon evaluation.

*Copy of current passport and copy of I-94 (upon arrival to USA)

*High school transcripts must be translated into English, evaluated by an international organization, and sent in a sealed envelope to Isothermal Community College's Admissions Department. Students are responsible for expenses related to transcript translation and evaluation.

Once all the above admissions information is in our possession and you have been evaluated as an eligible candidate to attend Isothermal Community College, the Director of Enrollment Management will generate an I-20 form for you to use in your application for an F1 Student Visa. If you wish to take ESL classes before you enroll in any of our degree, diploma, or certificate programs, you can contact ESL at 828-286-3636 ext.275. ESL classes are offered through our Continuing Education Department and are therefore considered separate from degree, diploma, or certificate programs. None of the steps noted above are required for taking classes in our Continuing Education Department.

PERMANENT RESIDENT

For students who either have an active application for residency to the USA on file with the Department of Homeland Security (DHS), or those who have received their green card, tuition may be either in or out-of-state, depending on the student's circumstance and ability to prove eligibility. In addition to the general admission requirements noted above, you may be asked to submit:

. Copy of the permanent resident card sent to you from DHS

- Completed North Carolina residency application (please contact Admissions at ext. 251 to have one sent to you) if you are not a North Carolina resident
- Further documents to prove that you have been a resident of North Carolina for 12 months or more and have been
 actively supporting the state's tax system. These documents vary from one person to another. To determine which
 documents can assist with proper evaluation of your circumstance, contact the Director of Enrollment Management at
 828-286-3636 ext. 288.
- * Please note that these two items will not prevent you from being admitted to college, but can assist in evaluating your eligibility for in-state tuition rates.

UNDOCUMENTED IMMIGRANT

Undocumented Immigrants may be admitted to Isothermal Community College under the following circumstances:

- The student must have graduated from a United States public high school, private high school, or home school as
 recognized by the state which the school was located. This includes Adult High School diplomas but <u>does not</u> include
 General Educational Development (GED) diplomas.
- 2. The student must pay tuition at the out of state rate.
- The student may only register for classes after the last published date of registration on a space available basis.
- 4. The student may not be allowed to enroll in certain programs of study that require a state license upon graduation. Programs of this type at Isothermal Community College include (but are not limited to):
 - a. LPN
 - b. RN
 - c. Surgical Technology
 - d. Cosmetology
 - e. Basic Law Enforcement Training

OTHER

If you feel you are qualified to attend college for a reason not outlined above, please contact the Director of Enrollment Management at 828-286-3636 ext. 288 to discuss your situation and receive some advice about circumstances and application to Isothermal Community College.

WHAT DOES "OFFICIAL" MEAN?

Official documentation refers to transcripts and other documents that are sent directly to the Admissions Office at Isothermal Community College in a sealed envelope from the issuing institution. Please have all documentation mailed to:

The Admissions Office

Isothermal Community College

PO Box 804

Spindale, NC 28160

If you have any further questions about international admission to Isothermal Community College, please contact the Director of Enrollment Management at 828-286-3636 ext. 288.

TRANSFER ADMISSION REQUIREMENTS

Transfer applicants must also meet the general admission requirements outlined previously. Each applicant requesting transfer of credits from another institution will be considered on an individual basis (see Transfer of Credit under Academic Procedures and Policies). All transfer students will enter the College in good academic standing. Once enrolled academic standing will be determined by grades on course work completed solely at Isothermal.

TRANSIENT STUDENTS

Transient students who are enrolling at Isothermal Community College should follow procedures below for Special Credit students.

SPECIAL CREDIT

A special credit student is defined as one who is enrolled in curriculum credit courses but who is not working toward a degree, diploma or certificate. Students may enroll in the college as special credit students by submitting an application for admission. Special Credit students enrolling in courses requiring the minimum proficiency in English, reading or math must provide one of the following: 1. An official sealed college transcript showing the appropriate prerequisite courses have been completed with at least a grade of "C" or 2. Satisfactory ASSET, accuplacer, or COMPASS placement test scores no more than three years old. When 15 credit hours have been accumulated, the Admissions Office reserves the right to counsel students to declare a major and submit proof of high school graduation or GED completion. Special credit students will be asked to submit proof of high school graduation or equivalent and meet placement criteria (if they have not already done so) if they desire to be reclassified as curriculum students with intent to pursue and earn a degree, diploma, or certificate.

READMISSION AFTER SUSPENSION

Any student having been suspended for disciplinary reasons from the College must submit a request for readmission to the Dean of Student Services.

RUTHERFORD EARLY COLLEGE HIGH SCHOOL (REACH)

REaCH is an innovative high school on the campus of Isothermal. Students enroll at REaCH at the beginning of their ninth grade year and continue through their twelfth grade year. While enrolled at REaCH, students take a combination of high school and college courses and may graduate with both their high school diploma and their associate's degree.

DUAL/CONCURRENT ENROLLMENT OF HIGH SCHOOL STUDENTS

PURPOSE

The purpose of Concurrent Enrollment is to provide flexible, seamless, student-centered educational opportunities for North Carolina high school students, which maximize the use of resources and educational opportunities not otherwise accessible.

DEFINITION

Dual Enrollment/Concurrent Enrollment occurs when qualified high school students are permitted to enroll in curriculum or continuing education courses. Students must be at least sixteen years of age and must have approval from their high school principal before being enrolled in college classes.

CONTACT

For more information regarding Dual Enrollment/Concurrent Enrollment students may call 828-286-3636 ext. 473 to speak with the College-High School Liaison.

Steps for Enrolling as a Dual/Concurrent Student STEP#1-APPLICATION

Fill out an application to ICC. This can be done either online at www.isothermal.edu or by handing in or mailing a paper copy to the Admissions Office in the Student Center at ICC. The mailing address is: ICC, PO Box 804, Spindale, NC 28160. Please submit your application to ICC 24 to 48 hours prior to registration of classes.

<u>What is a Prerequisite?</u> - A prerequisite is something that is pre-required before you will be allowed into a course (see the course descriptions in the back of the ICC Catalog to determine if prerequisites apply).

If the classes that you are interested in have English or math prerequisites, you must take our placement test (called ASSET or COMPASS). For information on the ASSET test, read STEP # 2. If the classes you are interested in have no prerequisites, move immediately to STEP # 3.

STEP # 2 - PLACEMENT TEST OR WAIVER

To be scheduled for the placement test your application must first be in our computer system (the application must be submitted to Admissions, please allow 24 to 48 hours processing time). If you have submitted an application, you can call the High School Liaison at 828-286-3636 ext. 473 to schedule a time to take the ASSET test.

It is possible to be waived from our placement test. For ICC to determine if you are eligible for a waiver, the ACT or SAT scores below must be provided to ICC in an official form (in sealed envelope from issuing institution). ACT and/or SAT scores can be submitted on an official high-school transcript.

Waiver from English portion of ASSET

SAT Critical Reading - 500 or higher

ACT English - 21 or higher

ASSET or COMPASS scores no more than 3 years old placing you into college-level English or previous college-level English course with appropriate grades (must be evaluated by ICC)

Waiver for Math portion of ASSET

SAT Math - 500 or higher

ACT Math - 20 or higher

ASSET or COMPASS scores no more than 3 years old placing you into college-level math or previous college-level math course with appropriate grades (must be evaluated by ICC)

STEP#3-DUAL/CONCURRENT ENROLLMENT FORM SIGNED

You must bring your concurrent enrollment form (complete with course selection and high school official signature) to the College-High School Liaison contact at Isothermal Community College. The Liason must also sign that form before you will be allowed to register for classes. If you are coming to take the placement test, you can get the form signed that same day. Otherwise, you may make an appointment or call in advance to ensure that someone is available to sign your form.

STEP#4-REGISTRATION FOR CLASSES

After you have submitted an application, any documentation required by ICC, completed your placement test (if applicable), and completed your Dual/Concurrent Enrollment form, the High School Liason will assist you in registering for classes.

ACADEMIC DEVELOPMENT PLACEMENT POLICY

Degree seeking students entering Isothermal Community College in the Arts and Sciences, Business Sciences, and Applied Sciences and Technology programs must complete one or more Academic Development courses in the areas of English, reading or mathematics as a result of any one of the following conditions:

- A scaled score below the cut-off scores established by the College on any of the ASSET or COMPASS
 placement tests (Writing Skills, Reading Skills, Numerical Skills, Elementary, Intermediate, or College Algebra).
- Referral by a faculty member to Academic Development courses when a student's work in curriculum courses demonstrates academic skill deficiencies in one or more of the areas of English, reading or mathematics.

Minimum cut-off scores have been established by the College. Students scoring below a minimum score in any one of the three areas must meet with the appropriate Learning Support and Retention Services personnel to discuss their options.

Students are encouraged to enroll in required Academic Development courses during the first semester of their enrollment because of reading and writing prerequisites for college level courses.

Transfer students who have completed college level or developmental courses in English, reading or mathematics with a grade of "C" or better will be exempted from placement testing in the area(s) they have completed.

Students must achieve a grade of "C" or better in required Academic Development courses to advance into college curriculum courses. Academic Development students failing to make academic progress may be dismissed from the program after failing the same course twice. Student appeals regarding this action may be directed to the Committee on Admissions, Academic Continuation, and Records. Appeals will be reviewed based on the determination of the student's ability to benefit from continued study. Upon completion of the required Academic Development courses, students may enroll in the regular sequence of English and mathematics courses. Because credits for academic development courses are used as institutional credits only, they cannot be counted toward graduation. Academic Development course credits determine course load for payment, eligibility for financial aid, and/or classification of a full-time student. Any exceptions to the overall policy must be approved by the Director of Academic Development.

TUITION AND FEES

Isothermal Community College receives financial support from local, state, and federal sources, allowing each student an educational opportunity at a minimum cost. Tuition is set by the State Board of Community Colleges and is subject to change without notice. Cost of textbooks and supplies are additional expenses which vary according to the program of study.

STUDENT ACTIVITY FEE

Curriculum students are charged a student activity fee. The proceeds from this fee are budgeted in a manner that benefits students.

STUDENT IDENTIFICATION CARDS

Student Identification Cards are issued to students who pay the student activity fee. Students who lose the Student Identification card will be charged a replacement fee.

RESIDENCE STATUS FOR TUITION PAYMENT

North Carolina G.S. 116-143.1 requires that to qualify for in-state tuition, a student must be a legal resident. As well, the student must be able to demonstrate that s/he has maintained domicile (permanent dwelling place of indefinite duration) in North Carolina for at twelve months or more immediately prior to his/her classification as a resident for tuition purposes. N.C. G.S. 116-143.1 also set forth statutory definitions, rules, and special provisions for determining resident purposes. Finally, a student must be able to demonstrate an intention to make North Carolina her/his permanent home. Isothermal Community College may not provide prior notice of out-of-state status. It is up to the student to raise the matter with the Admissions Office if s/he has a case to make for in-state status for tuition purposes.

Classification of in-state or out-of-state for tuition purposes will be based on statements and supportive evidence provided by each applicant through filling out of a residency evaluation application and provision of appropriate documents to the Director of Enrollment Management. In some cases the student may be asked to provide additional information to support the residency claim. Failure to provide requested information for residency classification can result in classification as non-resident.

If a change in classification is awarded, it shall be effective at the next academic semester following the date of application for reclassification. Regulations concerning the classification of students by residence are set forth in <u>A Manual to Assist the Public Higher Educations institutions of North Carolina in the Matter of Student Residence Classification for Tuition Purposes, available in the Student Services Office.</u>

The requisite domiciliary intent is tested by evaluating relevant, objectively verifiable conduct which may constitute a manifestation of the state of mind of the actor. The following types of inquiries, or combinations thereof, may be significant, though no one item, nor any combination of items, will necessarily control resolution of the question:

- a. Living or not living in the home of one's parents.
- b. Place where one voted or registered to vote.
- c. Place where one has served on jury duty.
- d. Place where one has registered and/or licensed a car.
- e. Place where one last acquired a driver's license.
- f. Place where one has filed state income tax returns.
- g. Place where one maintains personal property and last listed such for taxation.
- h. Place where one owns a home or other real property and pays taxes thereon.
- i. Place where one spends substantial parts of available vacation time.
- j. Place where one is or was employed or working gainfully.
- k. Place where one maintains membership in one or more professional associations, unions, and other organizations.
- 1. Place where one last attended or graduated from high school
- m. Place where one resided before enrolling in an institution of higher education.
- n. Sources of one's financial support.

Students classified as out of state, who also qualify for financial aid should be aware that the Pell Grant will be based on in-state rates. Any difference between in-state and out-of-state rates must be paid for by the student.

SENIOR CITIZENS

Legal North Carolina residents 65 years of age and older as of the first day of classes may be exempted from the payment of curriculum tuition for up to 6 credit hours and extension registration fees in accordance with Chapter 981 of the 1977 Session Laws.

TUITION REFUND POLICY AND PROCEDURES

TUITION REFUNDS

A refund shall not be made except under the following circumstances:

- (1) (a) 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 fails to "make" due to insufficient enrollment.
 - (b) 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.
 - (c) For classes beginning at times other than the first week (seven calendar days) of the semester a 100 percent refund shall be made if the student officially withdraws from the class prior to the first class meeting. A 75 percent refund shall be made if the student officially withdraws from the class prior to or on the 10 percent point of the class.
- (2) To comply with applicable federal regulations regarding refunds, federal regulations will supercede state refund regulations.
- (3) Where a student having paid the required tuition for a semester, dies during the 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.

Procedures For Requesting A Refund

(1) Student must officially withdraw from class(es) using a drop form with proper signatures.

- (2) Drop(s) must be recorded in the computer data system. Students who wish to change their class schedule during Schedule Adjustment Days are advised to drop and add courses during the same registration session to avoid being charged 25% of the tuition for the dropped class.
- (3) Refund will be mailed to student by the Business Office.

ACADEMIC POLICIES AND PROCEDURES

REGULATIONS AND REQUIREMENTS

In publishing these regulations, the College does not recognize any implied contract as having validity beyond the present academic catalog year. The President reserves the right to make changes in curricula and in regulations when, in her judgment, such changes are for the best interest of the students and the College. Until revised, the current catalog is the catalog of record for all students seeking to complete certificate, diplomas, or degrees in the fall of 2011 or later. Students enrolled prior to the fall of 2011 must confer with their advisors and the Office of Student Services in order to determine semester equivalents of quarter course credits.

Each student is responsible for observing the procedures, regulations, and requirements of the College as they are announced here and in other official College publications. This section sets forth some of the requirements and regulations which are of particular concern to students, but it is not intended to constitute a complete list of all such regulations and requirements. Unless otherwise stated, these regulations uniformly govern the academic progress of the student from the first year in the College through the final semester. It must be emphasized that the staff of the College will gladly assist students with details of their program or other academic problems, but that such assistance does not relieve the students of their individual responsibility for meeting the requirements and observing the regulations of the College.

REGISTRATION

The College operates on the semester system. Registration dates are listed in the Student Handbook. All students are required to register in accordance with the procedures and calendar established for the current year. Registration for classes which begin at a time other than the beginning of a semester will be completed on an individual basis.

REGISTRATION CLEARANCE

Students are responsible for obtaining registration clearance for unpaid fines or loans prior to registration. Students with other registration flags must also have clearance.

AUDITING COURSES

Students who wish to audit courses must register through the regular procedure. Audits will be charged the same fee as students taking courses for credit. AN AUDIT CANNOT BE CHANGED TO CREDIT OR CREDIT TO AUDIT AFTER THE DEADLINE FOR ADDING COURSES. Courses taken as an audit may be repeated for credit only. No curriculum course may be audited more than once. (See "Repeating Courses.")

STUDENT RECORDS

Isothermal Community College, in the execution of its responsibilities to students, must maintain accurate and confidential student records. The Office of Student Services has the responsibility for maintaining these records in accordance with existing state laws, College policy, and the Family Educational Rights and Privacy Act of 1974 as amended. Students are notified annually of their rights through the Student Handbook.

STUDENT ACADEMIC RECORD

The Admissions and Records Office will develop and maintain a permanent academic record for each curriculum student who enrolls in the College. This record will include name, address, social security number, student identification number, date of birth, sex and major. The academic portion of the record will include courses taken, grades, hours attempted, hours earned, quality points, quality point averages, courses and credits transferred (if applicable), and degrees, diplomas or certificates earned. A transcript(s) of the official academic record may be released or obtained by the student upon written request to the Student Records Office. An official transcript will not be released unless all tuition, fees and other obligations due the College have been satisfied.

EDUCATIONAL RECORDS AND PRIVACY RIGHTS

Isothermal Community College in the execution of its responsibilities to students, must maintain accurate and confidential student records. The Student Services Division has the responsibility for maintaining these records in accordance with existing state laws, College policy, the USA Patriotic Act, Solomon Amendment and the Family Educational Rights and Privacy Act of 1974 as amended.

Students are notified annually of their rights under this law through the orientation and registration process, and the complete policy along with guidelines and procedures are available in Student Services and printed in the Student Handbook. The Student Handbook is distributed widely in printed form and available on the college website.

TRANSCRIPT OF RECORD

The transcript is a statement of the official academic record of the student while attending the College. The College will not release an official transcript unless all tuition, fees, and other obligations due to the College have been cleared. Transcript(s) will not be released without the written consent of the student. (See section entitled **Student Records**).

PROGRAM CHANGES

Program changes should be initiated by the student through his/her advisor or Student Services. The program change form must be submitted to the Admissions Office.

SCHEDULE CHANGES

DROP/ADD

In order to officially drop or add a course, these steps should be followed:

- 1. Secure a Schedule Change form from the Division Secretary.
- Have a Drop/Add approved by faculty advisor and instructor. Students who wish to change their class schedule during Schedule Adjustment Days are advised to drop and add courses during the same registration session to avoid being charged 25% of the tuition for the dropped class.
- 3. Submit the Drop/Add form to Student Services to be officially recorded.

NOTE: Students will not be allowed to add or change sections after the deadline listed in the Academic Calendar and Semester Schedule book. Students may officially drop a course(s) without academic penalty and receive a grade of 'W' if this drop is made before the drop deadline as published in the college calendar. The Vice President for Academic and Student Services may approve a drop after the deadline.

WITHDRAWAL FROM COLLEGE

All Official Withdrawals Must:

- 1. Be made through the Advisor one week before the last day of classes for the term.
- 2. Be made in person if possible.
- 3. Be recorded by the Student Records Office to be official.
- Receive a grade of "W". Students who leave class without officially withdrawing may receive a grade of "F".

NOTE: Students will not be allowed to add or change sections after the deadline listed in the Academic Calendar and Semester Schedule book. Students may officially drop a course(s) without academic penalty and receive a grade of 'W' if this drop is made before the drop deadline as published in the college calendar. The Vice President for Academic and Student Services may approve a drop after the deadline.

WITHDRAWAL DATE

The official withdrawal date will be the date the withdrawal form is submitted to the Records Office.

ADMINISTRATIVE WITHDRAWAL

An instructor, in consultation with the appropriate instructional administrator, may administratively withdraw any student whose cumulative absences exceed 20% of the scheduled class hours for the semester. The withdrawal must be made by the drop deadline published in the college calendar. The student will receive a grade of W#.

In case of extenuating circumstances, a student who has been withdrawn from a course for excessive absences may be re-admitted to class with the permission of the instructor and the appropriate Dean/Director and the completion of a re-admission form. If a student is administratively withdrawn from more than one class in a semester, re-admission to class will be considered on a class-by-class basis. Re-admission forms may be obtained in the Student Services Office.

STUDENT CLASSIFICATIONS

Freshman-Earned less than 30 credit hours

Sophomore-Earned 30 credit hours or more

Part-time-Enrolled for less than 12 credit hours

Academic Load M

Maximum Hours

Arts and Sciences

21 credit hours

Business Sciences

21 credit hours

Applied Sciences

21 credit hours

Approval from the appropriate Dean is required to register for more than the maximum of hours at this or any other institution.

CLASS ATTENDANCE

Regular class attendance is a student obligation. The student is also responsible for all work, including tests and written assignments, and for all class meetings. No right or privilege exists that permits a student to be absent from any given number of class meetings.

Instructors establish their own class attendance policy. This attendance policy is explained in detail at the first class meeting and includes the relationship of absences to grades.

Students who stop going to class without officially withdrawing may receive a grade of "F" at the end of the semester.

SCHOOL ABSENCE FOR RELIGIOUS REASONS

Isothermal Community College recognizes the right of students to be absent from class for religious reasons. Students may request a maximum of two excused class days per academic year for observances required by their faith. In accordance with this right the president will establish procedures for requesting, documenting and excusing religious absences.

EXAMINATIONS

Final examinations in all subject areas are held at the end of each semester in accordance with the college calendar.

GRADING SYSTEM

Isothermal Community College is on a semester system. One hour of credit is earned for each lecture hour per week. Where laboratory is required, one credit hour is earned for at least two contact hours. Where shop/elinical/practicum is required, one credit hour is earned for three contact hours.

The grading system is as follows:

Grade	e Significance	Grade Points
A	Excellence	4 per semester hour
В	Above Average	3 per semester hour
B C	Average	2 per semester hour
D	Below Average	1 per semester hour
F	Failed	0 per semester hour
W	Withdrawn	0 per semester hour
I	Incomplete	0 per semester hour
I Y S	No Credit—Audit	0 per semester hour
S	Satisfactory	0 per semester hour
U	Unsatisfactory	0 per semester hour
WP*	*Withdrawn-Progressing	0 per semester hour
CE	Credit By Examination	0 per semester hour
DE	Diagnostic Examination	0 per semester hour
NS	No Show	0 per semester hour
CR	Transfer Credit	0 per semester hour
R	Repeat	0 per semester hour

An asterisk (*) beside a letter grade indicates Academic Development course work, for institutional credits only.

A percent (%) beside a letter grade indicates the student was granted an academic fresh start, does not count in GPA calculation.

A number (#) beside a "W" grade indicates the student was administratively dropped, and does not count in GPA calculation.

GRADE REPORTS

Final grade reports are furnished to the student by mail at the close of Fall, Spring, and Summer terms.

WITHDRAWN-PROGRESSING POLICY

The "WP*" (Withdrawn-Progressing) grade allows a student in an Academic Development course, who has attended regularly and made satisfactory progress, to continue the course in the subsequent semester until all the course requirements are met. The student must register for the course in the subsequent semester. The credit hours and attempted hours will not be given until the course is completed. The grade of "WP*" may be assigned only the first semester the student enrolls in an Academic Development course. Exceptions to the the policy require written permission from the instructor and the Director of Academic Development. Instructors will provide the registrar's office with a list of students who will receive the "WP*" grade one week prior to the last day of classes for the term. The "WP*" grade can be assigned only to Academic Development courses.

GRADE APPEALS

A student, after conferring with the instructor concerned, may present in writing to the appropriate instructional Dean/ Director an appeal of a course grade. See the Student Handbook for further information.

INCOMPLETE POLICY

A grade of "I" is assigned when the course work is incomplete. Unless the instructor has established an earlier time line for completion, this grade must be removed by completing the course before the end of the following semester or the grade automatically becomes an "F" on the permanent record. If a student is registered for a course that requires a pre-requisite with an assigned "I" incomplete grade, the student must complete the course by the third week of the term. Otherwise, the student will be administratively dropped resulting in a reduced enrollment status and ineligibility of a tuition refund.

REPEATING COURSES

Courses with earned grades of "D" or "F" may be repeated. Courses with earned grade of "C" or better may be repeated only by special permission from the Vice President for Academic and Student Services. When a course has been repeated, the higher grade will be counted. Physical education credit classes may not be taken for a grade of "audit." Credit students may not receive more than five physical education credits. Exceptions for physical education majors may be granted by the Vice President for Academic and Student Services. Non-credit recreation classes offered through Continuing Education may be repeated at will. Courses taken as audit may be repeated for credit only. No course may be audited more than once.

Students receiving Veterans benefits can receive benefits for repeated courses only if the prior grade is an "F".

ACADEMIC ALERT

Students whose grade point average (GPA) falls below a 2.0 are placed on Academic Alert. Students on academic alert may benefit from familiarizing themselves with two important college policies: Academic Fresh Start and Course Repeat. Students who repeat classes are encouraged to review their transcripts carefully to ensure that previously earned lower grade(s) have been removed from grade point average calculation. Students on Academic Alert should also consider academic load as well as assistance available through Student Services, Supplemental Instruction, and Academic Advisors.

Potential consequences related to ongoing academic alert

When a student's academic performance is chronically poor, e.g., student is performing at or below 1.0 in consecutive semesters, academic advisors may refer these students to the Dean of Student Services who will evaluate the progress of the student and may refer the student to the Committee on Admissions, Academic Continuation, and Records. This committee may (1) approve continued enrollment under specified circumstances or (2) suspend the enrollment of the student for a specified time frame. After the suspension period, the student must seek approval from the Dean of Student Services and/or the Committee on Admissions, Academic Continuation, and Records prior to re-entering.

Health Sciences

Information regarding academic progression in health sciences programs may be obtained in the academic departments.

ACADEMIC FRESH START POLICY

Any Isothermal Community College student who has experienced a lapse in enrollment at Isothermal for a period of at least three consecutive academic years may petition in writing to have grades older than three years old and below "C" disregarded in calculating the GPA. Following re-enrollment the student must complete at least 12 semester hours with a minimum grade point average of 2.0 prior to requesting an academic fresh start. In some instances students who change majors and complete 2 academic semesters with at least 12 semester hours and a 2.0 GPA in the new major may petition for an academic fresh start even if there has not been a lapse in enrollment.

The student requesting a fresh start should complete an application for Academic Fresh Start that is available in the Student Services office. Students may be granted an academic fresh start only once. An academic review committee will consider the request and determine the student's eligibility for grade forgiveness. If the request is approved, the grades will be removed from GPA calculation. Students transferring to another college should contact the institution to determine the impact of Academic Fresh Start on transfer. Fresh start GPA calculations are not used in determining eligibility for student financial aid.

AWARDING OF CREDIT

Transfer of credit for educational work taken at a regionally accredited institution may be accepted. Previous course work must be submitted on an official transcript. Credit will normally be allowed for applicable courses in which a grade of "C" or higher has been earned. Grades of previous enrollments will not be used in the grade point calculation of Isothermal Community College. Course work is evaluated according to the student's selected program. Time and program selection may be a factor in determining credit. Some technical credits older than 5 years or more may be subject to review by the Registrar's Office and appropriate faculty/dean. Courses under the 5 year limitation are determined and reviewed by Instructional Deans, and a list is maintained in the Registrar's Office. Students may be requested to provide prior course descriptions and/or documentation demonstrating required knowledge before credits are accepted. Note: Students requiring further math classes are STRONGLY advised to take a refresher course if it has been more than two years since completing their last math course.

Results of the transfer of credit evaluation may be appealed to the Committee on Admissions, Academic Continuation, and Records.

Transfer students must earn 50% of the credits required for graduation in their particular program at Isothermal Community College (see Graduation Requirements).

All transfer students will enter the college in good academic standing. Once enrolled, academic standing will be determined by grades on course work done solely at Isothermal.

TRANSFER OF CREDIT WITHIN THE INSTITUTION

Students transferring from one curriculum to another within the College may be handled in the same manner as transfer credits from another institution. Courses designed for satisfaction of Associate of Arts and Associate of Science degree requirements may be accepted in Associate of Applied Science degree programs; however, courses designed for career preparation in Associate of Applied Science degrees, diploma, and certificates may not apply to Associate of Arts and Associate of Science programs. A list of courses approved for Arts and Sciences credit is maintained in the office of the Dean of Arts and Sciences. Cumulative grade point averages are normally continued when changing programs. The GPA for graduation is based only on the courses required in the program.

OTHER CREDIT

Credit may also be given in the occupational areas for noncollegiate and military educational experiences. These educational experiences will be evaluated on the basis of the current editions of <u>College Credit Recommendations</u> and <u>The Guide To Evaluation of Educational Experiences in The Armed Services</u>. Time and program selection may be a factor in determining credit. A maximum of 16 semester hours may be awarded. (Also, see requirements for the Occupational Education Associate Program.)

CREDIT BY EXAMINATION

Any student at Isothermal Community College may receive course credit by examination through one of the following four methods: 1) Challenge Exam, 2) CLEP Exam, 3) Advanced Placement Exams, or 4) North Carolina High School to Community College Articulation Agreement, or 5) Diagnostic Exam in Academic Development courses.

CHALLENGE EXAM

A student may request permission through the appropriate instructional dean to challenge a course through a comprehensive exam for credit. Only those courses for which tests have been developed and have been filed in the dean's office may be challenged. The procedure for challenging is as follows:

- 1. The student must be registered for the course, have paid proper tuition, and have approval of the instructor.
- If the exam is failed, the student must continue the course.
- 3. A course may be challenged only once and must be done during the first week of class.
- 4. If the exam is passed, the student's grade must be submitted to the Student Records Office during the first two weeks of the semester. This grade will be recorded as a "CE". (Note: "CE" grades are not acceptable for the Comprehensive Articulation Agreement between the North Carolina Community College System and the UNC system.)

CLEP EXAM

A student can also receive course credit through the College Level Examination Program. These exams were designed for persons who have gained knowledge through experiential learning or personal study and have not yet received college credit for their learning. The student must make arrangements to take the exam and have the score sent to the Registrar. Credits will be given only for subject examinations, not for the general examinations, and then only according to the following chart: (Note: some transfer institutions may not accept CLEP Credit since it is not honored by the Comprehensive Articulation Agreement.)

CLEP CHART

Exam	Minimum Score For Awarding Credit	ICC Course(s) Comparable	Semester Hours
Financial Accounting	50	ACC 120	4
American Government	50	POL 120	3
History of U.S. I	50	HIS 131	3
History of U.S. II	50	HIS 132	3
American Literature	50	ENG 231, 232	6
Biology, General	50	BIO 111, 112	8
Calculus	50	MAT 271, 272	8
Chemistry	50	CHM 151, 152	8
College Algebra	50	MAT 161	8 8 8 2 8
College French Level I	50	FRE 111, 112	8
Pre-Calculus	50	MAT 175	4
College Spanish level I	50	SPA 111, 112	8
*Level II	50	SPA 211, 212	8
Information Systems			
and Computer Applications	- 50	CIS 110	3
English Literature	50	ENG 241, 242	6
English Composition (with essay)	50	ENG 111, 112	6
Principles of Marketing	50	MKT 120	3
Principles of Management	50	BUS 137	3
Principles of Microeconomics	50	ECO 251	3
Introduction to Psychology	50	PSY 150	3
Introduction to Sociology	50	SOC 210	3 3 3
Western Civilization I	50	HIS 111	3
Western Civilization II	50	HIS 112	3

^{*}If Level II of a Foreign Language is taken without Level I, then credit for both levels, (i.e., 16 semester hours) will be awarded if the necessary minimum score is attained.

ADVANCED PLACEMENT (AP) EXAMINATION

To be in compliance with the Comprehensive Articulation Agreement between the North Carolina Community College System and the University of North Carolina System, the following guidelines will apply regarding Advanced Placement credit:

If a student has taken AP courses in high school and the respective exam with a grade of (3) or higher on the exam, then the student can receive college credit for that score. For two semesters of credit in sequence courses, a student must make a score of 5. A score of 3 for courses such as these will receive one semester of credit. For example, a score of 5 on a biology AP exam will be awarded credit for BIO 111 and 112 (8 semester hours); for a score of 3 on the same exam, a student will receive credit for BIO 111 (4 semester hours).

Note: Regarding AP Calculus, the following placement guidelines will apply at Isothermal:

- A score of 3 or better on Calculus A-B will earn credit for MAT 271 only (4hrs.)
- A score of 3 or 4 on Calculus B-C will earn credit for MAT 272 only (4hrs.)
- A score of 5 on Calculus B-C will earn credit for both MAT 272 and 273 (8hrs.)

NORTH CAROLINA HIGH SCHOOL TO COMMUNITY COLLEGE ARTICULATION AGREEMENT

North Carolina high school graduates may be awarded college credits for certain high school courses when transferring to Isothermal Community College. Criteria is controlled by Department of Public Instruction and the NC Community College System and is subject to change without notice. The following criteria must be met to receive credit:

- 1. Grade of B or higher in the high school course
- 2. A raw score of 80 or higher on the standardized VoCATS post-assessment
- 3. Graduated from high school
- Apply to Isothermal Community College in a related major

GRADUATION

REQUIREMENTS

In order to qualify for a degree, diploma, or certificate in a program of study, the student must:

- 1) Complete all of the required courses as outlined in the official Curriculum Standards,
- 2) Earn the minimum required total semester hours,
- 3) Maintain a grade point average of 2.00 or better in the program of study, and
- 4) Submit an application for graduation.

The students are responsible for monitoring their program toward graduation. The college catalog of record for graduation evaluation will be the current catalog.

In the case of students transferring into Isothermal Community College, at least half of the credits required for graduation must be earned at Isothermal Community College.

COURSE SUBSTITUTIONS

Course substitutions may be approved to fulfill graduation requirements provided the substitution is appropriate to the student's program and a comparable course is offered. In all cases course substitutions must be consistent with the program requirements as outlined in the Curriculum Standards published by the North Carolina Community College System. Each student is limited to nine (9) credit hours of substitutions; however, in cases where courses have been discontinued additional substitutions may be approved. All course substitutions must be approved by the appropriate instructional dean and the Vice President for Academic and Student Services and recorded in the Student Records Office.

GRADUATION PROCEDURE

Students are expected to file graduation applications with the Student Records Office at least one semester preceding the completion of degree requirements. Commencement is held at the conclusion of the spring semester. A diploma fee is charged to each graduating student who wishes to purchase a diploma. The specific date of the commencement exercise is listed in the College Calendar in front of this catalog. All students who have completed degree requirements since the previous commencement are expected to participate in graduation exercises.

GRADUATION ORDERS

Graduation applicants will be notified by mail concerning orders for caps, gowns, diplomas, rings, and invitations. Orders are placed in the bookstore.

GRADUATION WITH HONORS

Students who complete a degree, diploma or certificate program with a program of study grade point average of 4.0 will graduate with High Honors. The student who earns a program of study grade point average of 3.50 to 3.99 will graduate with Honors.

HONORS & AWARDS

Students who earn honors and awards are recognized in the following ways:

AWARDS DAY

An annual assembly is held near the end of spring semester to recognize students whose scholarship, leadership, citizenship, and service have been noteworthy.

DEAN'S LIST

Dean's List is designed to recognize all students whose academic performance is outstanding. In order to qualify for the Dean's List, a student must carry at least twelve (12) semester hours of credit during the term and maintain a 3.25 grade point average for the semester. Academic Development courses number less than 100 and do not count toward hours earned for the Dean's List.

HIGH HONORS

You will graduate with High Honors if you have completed your degree, diploma or certificate program with a grade point average of 4.0 in your program of study.

HONORS

You will graduate with Honors if you have completed your degree, diploma or certificate program with a grade point average of 3.50 to 3.99 in your program of study.

OUTSTANDING STUDENTS

Each semester, students who display excellence in an aspect of college life are chosen from the Applied Sciences & Technology, Arts & Sciences, Business Sciences, and Academic Development program areas. These students are recognized as Learning College Student of the Semester. Additional awards or recognition may be provided for students with special achievement in regional, state, or national competition. Nomination forms are submitted in the eighth week of each semester to the Vice President of Academic and Student Services and Institutional Assessment, and awards are presented in the tenth week of the semester.

DR. BARBARA PETERSON AWARD OF EXCELLENCE FOR STUDENT PORTFOLIOS

The Dr. Barbara Peterson Award of Excellence for Student Portfolios is a certificate that may be awarded to as many students as deserve it each semester. Recipients will also be invited to return for Portfolio Workshop Week the following semester to display their work and discuss the process with others. Among the criteria for this award are completeness, quality of artifacts (with an emphasis on reflection), and qualities that make the portfolio stand above the crowd.

WHO'S WHO AMONG STUDENTS IN AMERICAN JUNIOR COLLEGES

Students are selected for the Who's Who Award by vote of the faculty based on academic achievement, service to the community, leadership in extracurricular activities, and potential for continued success. The Who's Who organization assigns a quota of nominees based on Isothermal's enrollment in order to recognize outstanding campus leaders for the year.

ROBERT WENDELL EAVES DISTINGUISHED TEACHING AWARD

To Recognize Excellence in Teaching and Service to Students

Each year, students, faculty, administration, staff, and people from the community have an opportunity to nominate an outstanding instructor for the Robert Wendell Eaves Distinguished Teaching Award. Recognition and a monetary award are given to the instructor selected each year. The winner is announced during the graduation ceremonies at the end of spring semester. To be eligible, the instructor must be a full-time employee of Isothermal Community College and must spend at least 25% of his/her employment in teaching. Nomination forms will be made available early spring semester. They can be obtained at the college switchboard, in Student Services, in the library, from departmental secretaries, at The Foundation, and on the college website.

THIS AWARD IS YOUR OPPORTUNITY to express appreciation to that ONE instructor who has gone above and beyond the call of duty to help you. Perhaps that instructor has helped you learn the subject matter, excel as a college student, obtain that first job, discover what career you want to pursue in life, or made a significant difference in your education in some way.

STUDENT SERVICES

The Student Services area includes such functions as admissions, financial aid, and student activities.

THE STUDENT CENTER

The hub of student activity is the Student Center. Located in the Student Services building the Center offers a lounge, student conference room, television area, and dining area where food and drinks are available. The Bookstore and the Workforce Investment Act office are also located in this area.

ACA 115: STUDENT SUCCESS AND STUDY SKILLS

A comprehensive orientation for associate degree seeking students is a required class, ACA 115: Success and Study Skills, a one credit hour orientation class. ACA 115 provides an extensive orientation to not only the College but also to the college experience. Topics that may be covered include (but are not limited to): college resources, policies, what it means to be a learning college; learning styles, time management, test taking, diversity, wellness, goal setting, career exploration, note taking, reading methods, study techniques, critical thinking, and oral and written communication skills, etc. Also, students gain familiarity with the library and federal financial aid, and they are encouraged to seek out cultural experiences.

HEALTH SERVICES

The College has no facilities for medical treatment other than for minor first aid and assumes no responsibility for injuries or sickness of students. First aid supplies are located at secretaries' desks in each building and in the shop areas.

Students suffering from acute illness or injury requiring more than minor first aid are asked to seek medical treatment. The student is responsible for costs incurred in such treatment.

Students are encouraged to provide themselves with medical insurance to cover illness/injury. Information regarding student accident insurance is available in Student Services. If an accidental injury involves an enrolled student on campus or as part of a related activity, it may be at least partially covered by student accident insurance.

HOUSING

The College does not provide living accommodations for students. The student is responsible for making his/her own housing arrangements. The College assumes no responsibility for rental negotiations between student and homeowner.

STUDENT ACTIVITIES

The College encourages student participation in student organizations and activities. A member of the Student Services staff is assigned the responsibility of coordinating all student activities and serves as the SGA advisor. The following are available on campus:

STUDENT GOVERNMENT ASSOCIATION (S.G.A.)

Students who pay a student activity fee are members of the Student Government Association and are entitled to all membership privileges of the organization. The Student Government Association Officers are active in promoting the interests of the students, improving facilities, planning social functions, and assisting other student organizations. The S.G.A. also includes elected representatives and members at large. Student interest and assistance are welcomed. The S.G.A. President is an ex officio member of the Board of Trustees.

The following clubs and activities are chartered or otherwise recognized on the campus. These organizations are student driven and provide opportunity to develop leadership skills. Active participation is strongly encouraged to maximize the full student experience.

Art and Computer Design Club (ACDC)

Afro-American Club

Chess Club

Connections Outreach Cosmetology - Day Cosmetology - Evening

Foothills Nursing Consortium Student Nurses' Association

International Association of Administrative Professionals (IAAP)

Intramural Sports

Isothermal Education Society Machining Technology Club

Minority Male Fellows Club (MMFC)

Phi Beta Lambda (PBL) Phi Theta Kappa (PTK) Twin Phoenix Karate Club Anuran (Poetry Magazine) Student Writer's Association

Student Practical Nurses' Club

SCHOOL COLORS; Blue and White

SCHOOL MASCOT: Patriot

COLLEGE PUBLICATIONS - PURPOSES AND RESPONSIBILITIES

The purpose of the ANURAN is to fulfill the expectations of an exceptional, annual literary journal. It is designed as a published collection of poems, essays and photographs, the culmination of a yearly poetry, essay and photography contest drawing on the talents of Isothermal and the communities it serves. Primary focus of The Anuran is student and community work. All publications of Isothermal Community College must abide by state and federal laws governing proper journalistic behavior as well as local college regulations.

STUDENT FINANCIAL AID

Isothermal Community College offers a variety of financial assistance for students who, without such help, may be unable to pursue their educational goals. Financial aid awards may come in one or more of the following forms: grants, scholarships, part-time employment, and/or loans. Most financial aid is awarded on the basis of need. In determining the student's need, it is assumed that the student and/or the student's family will provide assistance in an amount proportionate to their income and assets. Financial assistance is intended to be supplementary to the efforts of the family.

How to Apply for Financial Aid

Complete all requirements for admission to the College.

Complete the Free Application for Federal Student Aid (FAFSA). This application can be completed on the web at www.fafsa.gov. This form must be completed annually.

3. Submit a completed Isothermal Community College Financial Aid Data Sheet.

In some cases a signed copy of student/spouse/parent federal tax returns, applicable W-2 forms, and additional income
and asset supporting documentation may be requested.

Request and submit applications for other aid programs in which you feel you can establish eligibility. A number of financial aid programs require separate applications. Please note these under the "Types of Aid Available" section.

6. Refer to the Student Handbook or contact the Financial Aid Office for financial aid deadlines.

An online version of the FAFSA can be accessed at www.fafsa.gov. All students and prospective students may apply for aid. Applications must be completed on an annual basis for an academic year which includes the fall, spring, and summer terms. New applications are normally available beginning in January of each year and should be completed between the months of January and May for those desiring to start in the fall semester. Students starting school in the spring or summer terms should complete a FAFSA at least two months prior to the beginning of the term. Only one FAFSA should be submitted each year. Funding for many programs are limited, and late applicants may find that many funds are already obligated. An enrolled student must reapply in order to receive aid during subsequent years of attendance.

TYPES OF AID AVAILABLE

Please note that the information listed below is provided to students as a basic guideline. The information is very general in nature, and the Financial Aid Office should be consulted for further details, rules, and regulations. The information provided comes from data available at the time this catalog was reviewed prior to printing. All information contained in this section is subject to change.

FEDERAL PELL GRANT (PELL)

This is a federal grant that usually forms the foundation of federal student aid for undergraduate students. To determine eligibility, the student must complete a FAFSA. The U.S. Department of Education will process the information from the FAFSA using a formula called Federal Methodology, which is established by Congress. This grant is designed to assist low-income families and does not have to be repaid.* Eligible students can receive Pell Grant funds for a maximum of 18 full-time semesters or the prorated equivalent.

FEDERAL SUPPLEMENTAL EDUCATIONAL OPPORTUNITY GRANT (FSEOG)

This is a federal grant designed to assist undergraduate students with exceptional financial need as demonstrated by the results of their FAFSA. FSEOG is a block fund which means each institution has a limited amount of funds available to award. This is a grant and does not have to be repaid.*

FEDERAL WORK-STUDY (FWS)

This is a federal program that provides jobs for students who have financial need as demonstrated by the results of their FAFSA. This is a block fund so awards are limited. To apply, students must complete the FAFSA along with an institutional work-study application which can be obtained in the Financial Aid Office. Positions are available both on and off campus. FWS students work a maximum of 29 hours per week and will receive a monthly paycheck based on the actual number of hours worked.*

FEDERAL DIRECT STUDENT LOANS

Student loans are considered self-help aid, which means they must be repaid beginning six months after a student stops attending school at least half-time and are generally taken after other forms of grant and scholarship aid have been exhausted. Loans can be a combination of subsidized (interest paid by the government while the student is in school) and unsubsidized (interest accrues for the student once the loan is received by the school). Students must be enrolled at least half-time to receive a loan. The amount a student may borrow will be determined by a number of factors including grade level, dependency status (as determined by the FAFSA), and the amount of other educational assistance the student receives.

*More detailed information concerning the federal financial aid programs and eligibility requirements can be obtained by visiting www.studentaid.ed.gov.

NORTH CAROLINA STUDENT INCENTIVE GRANT (NCSIG)

This program is offered by the North Carolina State Educational Assistance Authority through the College Foundation of NC and is available to students who are U.S. citizens and are residents of North Carolina for tuition purposes. The student should complete the FAFSA prior to March 15th preceding the fall semester to be considered for this grant. This grant is awarded during the fall and spring semesters to eligible students who have enrolled in at least 12 credit hours during each semester and have met the college's Satisfactory Academic Progress requirements. Annual award amounts are contingent on funding levels approved by the North Carolina General Assembly. This grant is awarded only for the fall and spring semesters. An additional application is not required.

NORTH CAROLINA COMMUNITY COLLEGE GRANT (NCCCG)

This is a state administered grant and is available only to undergraduate students who are residents of North Carolina. The student should complete the FAFSA prior to March 15th preceding the fall semester to be considered for this grant. They must also meet the college's Satisfactory Academic Progress requirements. This grant is awarded during the fall and spring semesters to eligible students who have enrolled in at least six credit hours during each semester. Annual award amounts are contingent on funding levels approved by the North Carolina General Assembly. This grant is awarded only for the fall and spring semesters. No additional application is required.

NORTH CAROLINA EDUCATIONAL LOTTERY SCHOLARSHIP (NCELS)

This is a state administered grant that was created by the 2005 General Assembly to provide financial assistance to needy North Carolina resident students attending eligible colleges within the state of North Carolina. Eligibility is determined based on the expected family contribution (EFC). This scholarship is awarded only for the fall and spring semesters. Eligible students must meet the following requirements:

- . Be a North Carolina resident for tuition purposes
- . Enroll for at least six credit hours per semester in a curriculum program
- · Meet the Satisfactory Academic Progress requirements of the institution
- Be admitted, enrolled, and classified as an undergraduate student in matriculated status in a degree, certificate or diploma program at an eligible North Carolina institution (UNC campuses, Community College Campuses, Independent College Campuses and certain other private colleges)

NORTH CAROLINA CHILDCARE GRANT

The North Carolina General Assembly appropriates money for childcare services for student parents at Isothermal Community College. Childcare services funded through this allocation provide contractual services with childcare facilities or individual childcare providers. This grant does not have to be repaid, and funding is limited. Students may request the grant for a maximum of two years.

To be eligible, a student must:

- . Have children who will need childcare during the hours of student attendance
- · Be a resident of Rutherford or Polk County and be eligible for in-state tuition
- · File a FAFSA to establish need
- · Complete an application with the Financial Aid office
- · Enroll in at least six credit hours
- · Maintain at least a 2.00 GPA

NORTH CAROLINA LESS THAN HALF-TIME GRANT

This is a state administered grant and is available only to legal residents of North Carolina who are enrolled less than half-time (less than six credit hours). Students must file a FAFSA and have an estimated family contribution (EFC) between 801 and 4000. Students must also meet the college's Satisfactory Academic Progress requirements. This grant is awarded only for the fall and spring semesters. An additional application is not required.

PROSPECTIVE TEACHER SCHOLARSHIP/LOAN (PTSL)

This is a state funded program designed for students who are seeking to enter the teaching profession or who are seeking teacher certification. To qualify for this program, the student must be a legal resident of North Carolina and be attending a North Carolina college or university with an approved education program or enroll in a college transfer program at a community college within the North Carolina system. For more detailed information on eligibility requirements, applications, and application deadlines students should visit http://www.dpi.state.nc.us/recruitment/scholarships/other.

TEACHER ASSISTANT SCHOLARSHIP LOAN: TWO-YEAR DEGREE (TASL)

This program provides funding for students to attend a North Carolina community college to receive an early childhood associate degree. It is available to students who are legal residents of North Carolina. For more detailed information on eligibility requirements, applications, and application deadlines, students should visit http://www.dpi.state.nc.us/recruitment/scholarships/other.

NURSE SCHOLARS PROGRAM: UNDERGRADUATE PROGRAM (NSP)

This program was created by the North Carolina General Assembly to address the shortage of trained nurses practicing in North Carolina. It is administered by the North Carolina State Education Assistance Authority (NCSEAA). It is a competitive, merit-based scholarship/loan program available to students who have chosen to enter the nursing profession. Students wishing to apply for this scholarship must be U.S. citizens and North Carolina residents for tuition purposes. They must also be planning to enter a nursing program at one of the North Carolina colleges. Twelve months of service as a full-time nurse cancels one year of NSP loan obligation. Applications can be obtained by going to www.cfnc.org/NSP or calling 800-700-1775.

NURSE EDUCATION SCHOLARSHIP/LOAN PROGRAM (NESLP)

This program is available to North Carolina residents who are enrolled in a nurse education program and plan to obtain full-time employment as a nurse in the state of North Carolina. For each six months of employment as a nurse, a portion of recipient's loan obligation will be canceled. Award amount will vary depending on fund availability and the number of NESLP applicants. For more information on the application process, please contact the Financial Aid Office.

SCHOLARSHIPS

A number of scholarships are available to Isothermal Community College students. Criteria for selection most often include academic promise/standing and financial need. Other special requirements may be set by the scholarship donor. For institutional scholarships, college personnel participate in the selection of recipients. Students do not usually apply for specific institutional scholarships, but instead complete a general institutional scholarship application along with a recommendation form. Scholarships do not have to be repaid. Listed below are the institutional scholarships that are normally available. Contact the Financial Aid Office for information regarding eligibility requirements and application deadlines.

Andrew Major Scholarship Dr. J. F., Sr. and Ola H. Whisnant Scholarship Dr. W. M. Elliott Scholarship Eileen Conti Environmental Scholarship Edward Barrier Scholarship Frank and Mabel West Scholarship Gamma Beta, Delta Kappa Gamma Scholarship George Chatham Business Sciences Scholarship Hewitt Scholarship Isothermal Community College Alumni Scholarship Jack E. Buchanan Scholarship James Monroe McDonald Memorial Scholarship J.D. Cooley Scholarship John W. Billingsley Scholarship Julia Goforth Memorial Scholarship Kate Moore Scholarship

Lou Anne Perkins Nelson Scholarship Lovelace Nursing Scholarship Mable E. & James B. Doggett Memorial Music Scholarship Monroe and Ada Moore McDonald Scholarship Norris Ruppe Sunday School Class Scholarship Patricia P. Harris Memorial Scholarship Pi Conclave of Kappa Kappa Iota Scholarship Pinkie H. and T. D. Carson Scholarship Polly Hemphill Memorial Business Sciences Scholarship Putnam Scholarship Robert R. Spratt Memorial Scholarship Rutherford County Home Builders State Employees Credit Union Foundation Scholarship W. H. "Shorty" McDonald Scholarship Wells Fargo Technical Scholarship William V. Lee Memorial Scholarship

Non-institutional scholarships, defined as scholarships in which college personnel do not participate in the selection of recipients, are awarded to Isothermal Community College students each year. Students interested in applying for these scholarships must contact the grantor. There are several free online scholarship searches available to students. An excellent starting place is FastWeb which is located at www.fastweb.com. Information on other searches can be obtained from the Financial Aid Office.

LEE L. POWERS SCHOLARSHIP PROGRAM

The Lee L. Powers Scholarship Program was established by Martha Jane Powers in memory of her father, Lee L. Powers. Mr. Powers was a moving force in the history of Rutherford County. He served on many statewide committees which focused on issues such as transportation and senior citizens. The Rutherford County Commissioners named him to the Steering Committee which was instrumental in the establishment of Isothermal Community College. Mr. Powers was also honored by the Shriners of the Oasis Temple as one of those with the longest continuous service. The Lee L. Powers Scholarship Program has allowed Isothermal Community College to create three scholarships; the Lee L. Powers Service Scholarship, Lee L. Powers Merit Scholarship, and Lee L. Powers Concurrent/Dual Enrollment Scholarship.

Lee L. Powers Service Scholarship

The Lee L. Powers Service Scholarship was established to provide funding of tuition for eligible students. Once tuition demands are met, and if additional revenues are available, a stipend may be allotted for books. The actual amount of the scholarship will be determined by the number of applicants and revenues on hand. This scholarship is available to part-time students on a pro rata basis. Please note funding for this scholarship is limited.

Individuals interested in applying for the Lee L. Powers Service Scholarship must complete the Free Application for Federal Student Aid (FAFSA). This application is available online at www.fafsa.gov. Individuals do not have to qualify for the Pell Grant to be considered for this scholarship. Contact the Financial Aid Office for more information regarding scholarship eligibility requirements.

Lee L. Powers Merit Scholarship

The Lee L. Powers Merit Scholarship was established to recognize demonstrated meritorious academic achievement for six recent high school graduates. Each scholarship will be sufficient to cover tuition and books at Isothermal Community College. Contact the Financial Aid Office for more information on eligibility requirements, application, and application deadline.

Lee L. Powers Concurrent/Dual Enrollment Scholarship

The Lee L. Powers Dual/Concurrent Enrollment Book Scholarship is intended to assist dual/concurrent enrollment students attending a recognized high school in Rutherford or Polk County with the purchase of textbooks at Isothermal Community College. Recipients of this scholarship receive a maximum book allotment of \$100.00 for use in the Isothermal Community College Bookstore. Excess monies remaining on the recipient's account will be returned to the general scholarship fund. In order to qualify for this scholarship, students must be eligible for the Concurrent/Dual Enrollment tuition waiver.

SATISFACTORY ACADEMIC PROGRESS STANDARDS FOR FINANCIAL AID RECIPIENTS

Federal regulations require students receiving federal student aid to maintain satisfactory academic progress as defined by the institution. Federal student aid includes the Federal Pell Grant, Federal Supplemental Educational Opportunity Grant, and Federal Work Study and Federal Direct Student Loans. The North Carolina Student Incentive Grant, the North Carolina Community College Grant, and the North Carolina Educational Lottery Scholarship also observe these same standards. The institution's Satisfactory Academic Progress policy must include both qualitative (cumulative grade point average) and quantitative (hours earned compared to hours attempted, as well as a maximum time frame) elements.

Cumulative Grade Point Average (GPA)

Students receiving financial aid at Isothermal Community College must maintain a cumulative grade point average of 2.0 or higher. These standards are consistent with academic standards required for graduation.

GPA requirements will be monitored at the end of each semester. Any student earning less than the minimum required cumulative GPA shall be placed on financial aid warning. The student will be notified of his/her status in writing and may receive financial aid for one more semester of enrollment, consecutive or otherwise. If the student does not earn the minimum required cumulative grade point average by the end of the warning semester, he/she will be placed on financial aid suspension. The student is not eligible for aid while on suspension.

*Credit hours attempted will be cumulative and will include all hours for which the student was enrolled as of the census date of each academic term for which the student received a grade of A, B, C, D, F, I, W, or R.

**Cumulative GPA is computed by dividing the total number of quality points earned by the total credit hours attempted for which the student received grades of A, B, C, D, F, or I. No quality points are earned for a grade of I, and for financial aid purposes it is treated as a failing grade until proven otherwise.

MAXIMUM TIME FRAME

Any student receiving federal financial aid will have a maximum time frame in which he/she is expected to complete a program of study. Federal regulations require that the time frame be no more than 150% of the established length of the current program. At Isothermal Community College, the 150% time frame will be measured in terms of credit hours attempted.*

For example: If a program requires 65 semester credit hours to complete, then a student may receive financial aid for up to 97.5

(65 x 150%) semester hours attempted.

Once the student has attempted 150% of the credit hours allowed in his/her program he/she is no longer eligible for financial aid at Isothermal Community College. Should the student complete a diploma or associate degree program after losing eligibility, they should contact the Financial Aid Office for a re-evaluation of their status.

*For this quantitative measure, credit hours attempted will be <u>cumulative</u> and will include all hours for which the student was enrolled at the end of the census date of each academic term and received a grade of A, B, C, D, F, I, W, or R. All classes will be counted regardless of whether the class is part of the student's current major or whether the student received financial aid for the class.

PROGRESSION RATE

A student must successfully complete a minimum of 67% of cumulative credit hours attempted. Progress in this area will be evaluated at the end of each term. Any student falling below the 67% requirement shall be placed on financial aid warning and will be notified of that status in writing. Students on warning may receive financial aid for one more semester of enrollment, consecutive or otherwise. If the student does not bring the completion rate up to the required 67% by the end of the warning semester, financial aid suspension will occur and all financial aid will be terminated. The student will not be eligible for aid while on suspension.

Both the qualitative and quantitative standards are cumulative and include all periods of enrollment at Isothermal Community College, even those for which the student did not receive financial aid funds. The Academic Fresh Start Policy, discussed earlier in the catalog, will not improve a student's standings as far as financial aid satisfactory academic progress is concerned.

EFFECTS OF ACADEMIC DEVELOPMENT COURSEWORK

Students who have been accepted into a degree program and are required to take Academic Development coursework, as determined by placement testing, may receive financial aid until they have <u>attempted</u> a total of 30 semester hours. All semester hours attempted will be counted towards the 30 hour maximum limit, regardless of the grade received. Academic Development classes dropped prior to the beginning of a term will not be counted towards the maximum limit.

EFFECTS OF PREVIOUS CREDITS

- Transfer Students Any student transferring from a school other than Isothermal Community College will be considered
 to be making satisfactory progress at the time of his/her enrollment. The student's maximum time frame will be reduced
 by the equivalent number of credit hours attempted toward his/her degree.
- 2. Isothermal Community College Returning Students Returning students will have their cumulative GPA carried forward, subject to the institutional policy regarding transfer of credit within the institution. All credit hours attempted will be converted to semester hours and carried forward. This policy is in accordance with federal regulations stating that satisfactory academic progress standards must cover all periods of the student's enrollment, including those periods for which the student did not receive federal student aid funds.
- Isothermal Graduates If a student graduates from a program at Isothermal Community College and desires to pursue another degree, that student will assume the maximum time frame of the new program.

PROCEDURE FOR REINSTATEMENT OF FINANCIAL AID

Students who have had their aid terminated may reestablish eligibility for financial aid in one of two ways: (1) By enrolling for subsequent semester(s) at his/her own expense until satisfactory academic progress is achieved, or (2) By the appeals process, if approved. Retroactive payments of financial aid for periods in which a student did not meet satisfactory progress standards are prohibited.

HOW TO APPEAL FINANCIAL AID SUSPENSION

To appeal financial aid suspension, a student must be able to demonstrate mitigating circumstances. Mitigating circumstances are defined as injury or illness of the student, death of a relative, change in employment situations, or undue hardship caused by special circumstances. The procedure for appeal is as follows:

- A student will indicate in writing to the Financial Aid Director the reason(s) why he/she did not make satisfactory
 academic progress and why financial aid should not be terminated. Documentation to support the appeal is encouraged.
- The Financial Aid Director will review the appeal and determine whether or not termination of aid is justified. The student will be advised of the decision in writing.
- 3. Students with approved appeals will be placed in a probationary status and will be required to follow an Academic Plan provided by the Financial Aid Office. Students meeting the requirements of the Academic Plan at the end of each semester will automatically have their probationary status continued, if an eligible status has not been attained. Students not meeting the requirements of the Academic Plan will be placed on financial aid suspension and will not be eligible for another appeal until they have completed a minimum of six credit hours at their own expense and made improvement to their standing.

POLICY ON RETURN ON TITLE IV FUNDS

Federal financial aid is awarded to a student under the assumption that the student will attend college for the entire period for which the assistance is awarded. For example, if the student is given aid for the fall semester, it is assumed the student will attend college from the beginning of the fall semester through the end of the fall semester. Federal financial aid regulations specify how Isothermal Community College must determine the amount of Federal Student Aid (FSA) assistance a student has earned if they withdraw from school. The FSA programs that are covered by this law are: Federal Pell Grants, Stafford Loans, Federal Supplemental Educational Opportunity Grants (FSEOG), Federal Perkins Loans and in some cases certain state grant aid.

When a student withdraws from all classes during a semester, the amount of FSA program assistance the student has earned up to that point is determined by a specific formula known as Return to Title IV. If the student received (or the student's college or the student's parent received on the student's behalf) less assistance than the amount the student earned, the student may be able to receive those additional funds. If the student received more assistance than the student earned, the excess funds must be returned by the college and/or the student.

The amount of assistance the student has earned is determined on a pro-rata basis. For example, if the student completed 30 percent of the semester, the student earned 30 percent of the assistance they were originally scheduled to receive. Once the student has completed more than 60 percent of the semester, they are considered to have earned all the assistance they were scheduled to receive.

If the student did not receive all of the funds they earned, they may be due a post-withdrawal disbursement. The college may automatically use all or a portion of the student's post-withdrawal disbursement for tuition, fees, and room and board charges. For all other college charges, the college needs the student's permission to use the post-withdrawal disbursement. If the student does not give permission, which some colleges ask for upon enrollment, the student will be offered the funds. However, it may be in the student's best interest to allow the school to keep the funds to reduce their debt at the school.

If the student receives (or the student's college or the student's parent receive on their behalf) excess FSA program funds that must be returned, the school must return a portion of the excess equal to the lesser of

- 1. your institutional charges multiplied by the unearned percentage of your funds, or
- 2. the entire amount of excess funds.

The college must return this amount even if it didn't keep this amount of your FSA program funds. If the college is not required to return all of the excess funds, the student must return the remaining amount. Any amount of unearned grant funds that must be returned is called an overpayment. The amount of a grant overpayment that the student must repay is half of the unearned amount. The student must make arrangements with the school or the Department of Education to return the unearned grant funds.

The requirements for FSA program funds when a student withdraws are separate from any refund policy the college may have. Therefore, the student may still owe funds to the college to cover unpaid institutional charges. The college may also charge the student for any FSA program funds that the college was required to return. If the student does not know what the college's refund policy is, they may ask for a copy. The college can also provide you with the requirements and procedures for officially withdrawing from college.

WORKFORCE INVESTMENT ACT

The Workforce Investment Act provides funds to students who are enrolled in a technical or vocational program. Eligibility is determined by WIA criteria. Funds may be provided for one or more of the following: tuition, fees, books, transportation, and other support related to training. A limited number of openings are available. For more information please contact a WIA case manager at 828-287-0262 or 828-286-3636 ext. 315.

VETERANS AFFAIRS

Isothermal Community College provides information and assistance to eligible veterans and dependents of disabled or deceased veterans in applying for educational benefits. The Department of Veterans Affairs offers several programs (Chapters):

Chapter 30—Montgomery G.I. Bill

Chapter 31-Vocational Rehabilitation

Chapter 33-Post 9/11 G.I. Bill

Chapter 35-Survivors & Dependents Educational Assistance

Chapter 1606—Montgomery G.I. Bill Selected Reserve

Eligibility, length of eligibility, number of months you can receive benefits, and the amount of assistance are determined by the Department of Veterans Affairs. Rates are determined by your chapter and the number of semester credit hours registered for in a given semester.

Before you can draw Veterans Benefits, you must complete all Isothermal admission and Department of Veterans Affairs requirements listed below:

· Complete Application for Benefits,

- Submit certified copy of DD-214 (discharge papers) or NOBE (Notice of Basic Eligibility) and/or approval from the DVA depending on Chapter,
- Complete the Application Process at Isothermal Community College which includes the following:

- Admission Application

- Official High School/GED and College Transcripts

- Placement Test (ASSET or COMPASS)

- Choose a program of study all programs are not eligible for DVA benefits, check with Isothermal Community College Veterans Office, and
- · Submit registration information each semester.

Students receiving benefits from the DVA must report any information or changes to prevent overpayment. If any changes have been made in your enrollment, entrance, re-entrance, program of study, hours of credit, address, name, etc., notify the Isothermal Community College Veterans Office immediately.

The Department of Veterans Affairs will only pay for courses required in your program of study. They will not pay for courses previously passed, audited courses, credits by exam or dropped courses. You will receive payment for remedial courses only if you placed in those courses based on your ASSET or COMPASS scores. A student must maintain satisfactory progress to continue to receive benefits. For more information, please refer to our website www.isothermal.edu/finaid/veterans-affairs.htm.

VOCATIONAL REHABILITATION

The N.C. Division of Vocational Rehabilitation Services (NCDVRS) offers assistance to students who have disabling conditions and barriers to employment. Each individual who qualifies for services is provided a counselor who works with them to achieve an employment outcome. Services that are offered to each individual vary based on the needs of that student to return to competitive employment. Although not fully encompassing, the following list represents services that might be available to qualifying individuals: tuition, fees, books, supplies, interpreter services, attendant care on campus, and transportation cost services. To determine if a student is eligible for services through NCDVRS, please contact your local office. In Rutherford and Polk County, the number is 828-245-1223.

LEARNING SUPPORT AND RETENTION

The office of Learning Support and Retention is located in Room 9 in the Student Center. The Learning Support and Retention staff members provide a variety of vital services to all enrolled and prospective students, faculty, and staff. When visiting the office of Learning Support and Retention, students can expect to receive knowledgeable assistance provided with a caring attitude.

COUNSELING SUPPORT

Counseling Support includes such functions as providing career and personality assessments for students, one-on-one discussions to link career results to related programs, and an investigation of resources that give an overview of the future of different types of careers given the economy and other political issues. These services also include some job search supports such as how to write a resume, interview skills, etc. Many of these services are offered through information sharing meetings and with the assistance of the resources available in the office of Learning Support and Retention.

Personal counseling services include timely support and relevant referrals for students dealing with personal issues and crises. Counselors offer assistance with the development of self management skills, self concept building, education planning, improvement of interpersonal relationships, and drug and alcohol issues. As well, counseling support play an important role for staff and faculty on campus through the office of Learning Support and Retention and the TALC Campus Life Committee and as a source of educational materials for the entire campus. Students may also access the office of Learning Support and Retention website for information and helpful links available at www.isothermal.edu.

Academic counseling services include advising students on matters related to their program choice, course selection, educational goals, course workload issues, transfer information, and proactive educational planning to ensure students are on the correct track for reaching their future goals.

DISABILITY SUPPORT

Isothermal Community College is committed to providing equal access to education for persons with disabilities. However, it is the responsibility of the student to make his or her disability known and to request accommodations. Requests should be made in a timely manner, preferably 30 days prior to registration, and submitted to the Disability Services Coordinator. Every reasonable effort will be made to provide services.

In order to establish the student's eligibility for services, documentation of a disability is required of all students who request accommodations. Documentation must be provided from an appropriately licensed/certified professional and must be complete enough to establish the student's status as a person with a disability as well as establishing the need for any requested accommodations. The age of acceptable documentation is dependent upon the disabling condition, the current status of the student and the student's specific request for accommodations. The Disability Services Coordinator may require that the documentation be no older than three years. Necessary documentation to request accommodations/services, in general, should include the following:

- 1) Identification of the nature and extent of the disability including diagnosis,
- Specific information on the functional limitation as related to the academic environment,
- 3) Description of the current course of treatment including medical side effects,
- 4) Prognosis for the disability, and
- Recommended reasonable accommodations.

An Individualized Education Plan (IEP) may help to identify services that have been effective for the student, but will not be considered acceptable documentation of a disability. All documentation and records provided will be maintained in a confidential manner as outlined in the Family Educational Rights and Privacy Act of 1974.

TESTING SUPPORT

Testing services include the administration of ASSET and COMPASS placement tests, GED tests, and the NET, PSB, and Challenge Exams for applicants to health sciences programs.

Isothermal Community College implemented the ASSET testing program in the fall of 1990. This program was developed by American College Testing (ACT) specifically to help persons entering two-year community and technical colleges succeed in their educational pursuits. All new students (with the exception of some certificate applicants) are required to take the ASSET placement test prior to admission to Isothermal Community College. ASSET measures a student's present skill levels in Writing, Reading, Basic Mathematics, and Algebra and provides valuable assistance in initial course placement. In the summer of 2000, the College adopted COMPASS as a supplemental placement testing program. Also developed by ACT, COMPASS is an un-timed computerized placement testing program. It tests students in the same areas as does ASSET and provides information for class placement.

JOB AWARENESS

A computer station with Internet access is available in the office of Learning Support and Retention for job search and career assistance. In addition, instructors in each program area assist students as requested.

INFORMATION SERVICES AND TECHNOLOGY ____

INFORMATION TECHNOLOGY

The mission of Information Technology (IT) is to interactively empower the learner and the facilitators of learning through direct access to information and services. The goal of the Information Technology staff is to enhance the learning experience of students through the use of appropriate technologies. IT pursues this goal by providing college-wide technology support, and by offering training to staff members who use, or wish to use, technology as part of the learning experience, whether in instructional or support capacities. Information Technology staff maintain an e-mail system for staff and for students, a records system, wireless and wired networks, and the workstations necessary to access online information.

DISTANCE LEARNING SERVICES (www.isothermal.edu/onlcourse.htm)

The mission of Distance Learning is to provide convenient alternatives to attending traditional on-campus classes for students who wish to take Isothermal Community College courses. Online courses require student workloads comparable to traditional courses. Faculty who teach online courses, and those who may wish to incorporate technology into traditional courses, are offered training in using course management software and other software and equipment. The College cooperates with public and private colleges and universities in mutually beneficial projects that enhance and expand the curricular opportunities of students. In order to address the needs of students for flexible scheduling and delivery of classes, a selection of online courses is offered through Isothermal's Distance Learning initiative. The following chart provides definitions of the types of courses available to Isothermal students.

COURSE SECTION DESIGNATORS BASED ON INSTRUCTIONAL DELIVERY METHOD

Type of Course Code Description of Instructional Delivery Method

Traditional	TR	College credit or continuing education course where the instructor and students meet face-to- face, according to designated dates/times/location and where there is no Internet or other method of delivery requirement.	
Self Paced	SP	Self Paced Developmental courses only	
Internet or Online	IN	College credit or continuing education course where 100% of the instruction is delivered through the Internet.	
Hybrid	HY	College credit or continuing education course where the primary delivery is on-line with a requirement that students also meet in traditional face-to-face sessions as determined appropriate by the college. 51% or more of the instruction is delivered through the internet	
Web-supported or Web-assisted	WB	College credit or continuing education course where the primary delivery is via traditional face-to-face method with a requirement that students have Internet access as a supplemental part of the course. 50% or less of the instruction is delivered through the Internet.	
Information Highway/Two- way Video	114	College credit or continuing education course where 100% of the instruction is delivered by two- or more way video.	
Cooperative Education	CP	Instruction consisting of the integration of traditional classroom learning with supervised wor experience and where there is no Internet requirement.	
Independent Study	IS	Self-paced course in which a student progresses through the instructional materials at their own pace, regardless of method of delivery.	
Telecourse	TV	College credit or continuing education course where 100% of the instruction is delivered by video, television or cassette.	
Digital Media	DM	College credit or continuing education course where 100% of the instruction is delivered to non telecourse digital video or media resources.	
Teleweb	TW	College credit or continuing education course where the primary delivery of instruction is via telecourse and also requires Internet access as a supplemental part of the course.	

The following may be helpful when selecting the type of course that works for you:

- A student taking an Internet course is not required to have a physical presence on our campus to complete the
 course, e.g., students in another state could take the course.
- A web-supported or web-assisted course is a traditional seated course that includes the use of the web to deliver some course content.
- A hybrid course falls between an Internet course and a web-supported course in that a hybrid course reduces
 time constraints on the student by replacing some of the usual on-campus seated class time with web-accessible
 resources, e.g., chat, discussion boards, e-mail, etc.

COLLEGE REGULATIONS & POLICIES

CONDUCT

The student assumes full responsibility for the consequences of his/her actions and behavior. It is the personal responsibility of each student to uphold the rules and regulations of Isothermal Community College. The College reserves the right to dismiss any student who, in its judgment, conducts him or herself in a manner that is not in compliance with the purposes of this institution. The complete policy for Student Rights, Responsibilities, and Judicial Procedures is available in the Student Services Office and detailed in the Student Handbook which is available in print and on the website.

COMMUNICABLE DISEASE POLICY

Isothermal Community College shall not exclude individuals with communicable diseases unless a determination is made that the individual presents a health risk to himself/herself or others. It is the policy of Isothermal Community College to consider the educational or employment status of those with a communicable disease on an individual basis. Communicable diseases as defined in this policy include but are not limited to acquired immunodeficiency syndrome (AIDS), chicken pox, hepatitis, measles, tuberculosis, meningitis, mononucleosis and whooping cough.

COMMUNICABLE DISEASES: ADMINISTRATIVE PROCEDURES

- 1. All information and records that identify a person as having a communicable disease shall be strictly confidential.
- Disclosure of medical information shall be by the president only to those on a need-to-know basis to protect the welfare of persons infected with a communicable disease or the welfare of other members of the college community.
- Unauthorized disclosure of medical information by an employee of the College is prohibited. Violation of this prohibition
 may result in the suspension from or termination of employment at Isothermal Community College.
- 4. Persons who know or have a reasonable basis for believing, that they are infected with a communicable disease are expected to seek expert advice about their health circumstances and are obligated, ethically and legally, to conduct themselves responsibly toward other members of the college community.
- Faculty and staff of Isothermal Community College and employees of contractors or contracted services who are infected with a communicable disease are urged to notify the appropriate Dean/Directors so that the College can respond appropriately to their health needs. Students are urged to share information with the appropriate Dean/Directors for the same reason.
- Persons infected with a communicable disease (including the AIDS virus whether active AIDS, AIDS-Related Complex, or zero positive to virus) will not be excluded from enrollment or employment or restricted in their access to the college's services or facilities unless medically-based judgment in individual cases establish that exclusion or restriction is necessary.
- 7. Included in making decisions in individual cases which restrict access to enrollment or employment shall be the college president, the college attorney, the Dean/Directors, the individual's personal physician, the local health director (or designee), and if necessary, another physician with expertise in managing communicable disease cases.
- 8. The college shall communicate the most current information regarding communicable diseases, especially AIDS.

COMPUTER RESOURCES, INTERNET, AND NETWORK USE POLICY

Information regarding the College Computer Resources, Internet, and Network Use Policy is available in the Student Handbook.

DRUG & ALCOHOL POLICY

The possession and/or use of any non-prescribed controlled substance as defined in Chapter 90 of the General Statues of North Carolina and federal laws are not permitted on the campuses of Isothermal Community College. The consumption of alcohol or the possession of an open container which contains alcoholic beverages is prohibited on the campus of Isothermal Community College. Exceptions shall be made for use of alcohol in instructional situations, e.g. cooking classes, laboratory experiments, or in conjunction with events at The Foundation meeting the requirements of the state ABC Codes and of the non exclusive catering services agreement. Appropriate disciplinary sanctions will be determined by the College on a case by case basis and may include expulsion or termination of employment and referral for prosecution. A full description of the Drug and Alcohol Policy is available in the appendix of the Student Handbook and the Student Life link on the College website.

INCLEMENT WEATHER POLICY

In the event curriculum classes are canceled due to inclement weather or emergencies, time missed shall be made up by alternative assignments and documented with the appropriate Dean/Director, recorded with the Registrars Office. Alternative assignments may be developed and approved in advance if the course content has such flexibility, e.g. a unit may be held in reserve pending weather cancellations but included in class in the event there are no cancellations. If days canceled exceed five in a semester, break time may be rescheduled for class meetings. Continuing Education classes may be rescheduled with the program supervisor's approval. Adjustments will be reflected on the official class roll.

CRIME AWARENESS AND REGISTERED SEX OFFENDERS

As required by the Crime Awareness and Campus Security Act of 1990, information regarding crime awareness and campus safety is available in the Student Handbook. Information regarding registered sex offenders in the local region may be obtained by contacting the Rutherford County Sheriff's Department at (828) 287-6247 or at the web site: http://sbi.jus.state.nc.us.

STUDENT RIGHTS

It is the duty of the president to exercise full authority in the regulation of student services and discipline in the institution. Delegation of this authority is normally made to the Dean of Students. Nevertheless, it is the duty of the president to insure to every student the right of due process. A complete policy of Student Rights, Responsibilities and Judicial Procedures is available for review in the Student Services Office and detailed in the Student Handbook which is available in print and on the website.

ADDITIONAL INFORMATION ON RULES AND REGULATIONS IS CONTAINED IN THE STUDENT HANDBOOK. IT IS THE INDIVIDUAL RESPONSIBILITY OF EACH STUDENT TO READ AND UNDERSTAND THIS HANDBOOK. A MANUAL OF STUDENT RIGHTS, RESPONSIBILITIES AND JUDICIAL PROCEDURES IS AVAILABLE UPON REQUEST IN THE STUDENT SERVICES OFFICE.

TRAFFIC REGULATIONS

Faculty, staff and visitor parking areas are shown on the Campus Map. These areas, and a small portion in front of Business Sciences Building (Student Parking 2), have yellow parking lines with reserved numbers. Students are asked not to park in these reserved spaces.

Student parking areas have sufficient parking to accommodate all vehicles driven by students. At times, the student may not be able to use the parking area most convenient and will have to park in a student area more removed from his/her destination. Students are required to park in the assigned parking areas. Parking along the roadways and in the staff and faculty parking spaces is prohibited.

CUSTOMIZED TRAINING & DEVELOPMENT____

Isothermal Community College is committed to providing business and industry with a broad array of educational and training services. In addition to customized training and regular curricular offerings, the college can assist business and industry through the following program areas.

CUSTOMIZED TRAINING PROGRAM

The Customized Training Program supports the economic development efforts of the State by providing education and training opportunities for eligible businesses and industries. Amended in 2008, this program combines the New and Expanding Industry Training Program and the Customized Industry Training Program to more effectively respond to business and industry. The Customized Training Program also includes the former Focused Industry Training Program and shall offer programs and training services to assist new and existing business and industry to remain productive, profitable, and within the State.

The program was developed in recognition of the fact that one of the most important factors for a business or industry considering locating, expanding, or remaining in North Carolina is the ability of the State to ensure the presence of a well-trained workforce. The program is designed to react quickly to the needs of businesses and to respect the confidential nature of proprietary processes and information within those businesses.

PURPOSE

The purpose of the Customized Training Program is to provide customized training assistance in support of full-time production and direct customer service positions created in the State of North Carolina, thereby enhancing the growth potential of companies located in the State while simultaneously preparing North Carolina's workforce with the skills essential to successful employment in emerging industries.

ELIGIBILITY

Those businesses and industries eligible for support through the Customized Training Program include Manufacturing, Technology Intensive (i.e., Information Technology, Life Sciences), Regional or National Warehousing and Distribution Centers, Customer Support Centers, Air Courier Services, National Headquarters with operations outside North Carolina, and Civil Service employees providing technical support to US military installations located in North Carolina.

SMALL BUSINESS CENTER

The Small Business Center at Isothermal Community College is a community-based provider of education and training, confidential counseling, information, and referral for persons who are currently in business or those seeking to start a new business in Rutherford and/or Polk County.

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The objective of the Small Business Center Network is to increase the success rate and the number of viable small businesses in the State of North Carolina. Throughout the year, the Small Business Center conducts seminars and training that are designed to provide you with up to date information on various small business topics.

At the Small Business Center, we also provide free, confidential counseling services for new and existing businesses. Available on an as-needed basis, our counselors serve as sounding boards for ideas and concerns you may have about your business. Our professional staff will help you find solutions to your challenging business questions. No question is too simple or too complicated.

CAREER READINESS CERTIFICATION

Career Readiness Certification is a credential that can be obtain at Isothermal Community College to take to a job interview. It can show an employer the skills a person has in reading for information, applied math and locating information. The program is self paced, the hours are flexible and in some cases the class is free.

CONTINUING EDUCATION

www.isothermal.edu/conedu

Continuing Education's flexibility provides the opportunity to meet a wide variety of individual and group needs. Adults can study a high tech skills, learn to read, take a course for self-enrichment, or develop quality management techniques. Some courses are offered on a continuing basis while others are given in response to requests of individuals or groups. Groups meet in schools, churches, community clubs, fire stations, and industry throughout Rutherford and Polk counties and on campus. Class hours, the length of the course, and the number of meetings per week can be arranged for the convenience of the participants.

ADMISSION AND REGISTRATION

Adults 18 years of age or older are eligible to participate in Continuing Education classes. High school students from Rutherford and Polk counties, ages 16 and 17, may enroll in a course with permission from their high school.

REGISTRATION FEES

Student fees depend on the type of course. There are no registration fees for Adult Basic Education, HRD, and the High School Diploma programs. Law enforcement, fire, rescue, and EMT personnel pay no fees for their in-service training. Prisoners and mentally handicapped adults are fee exempt. North Carolina residents 65 and over, do not pay a fee for some classes.

CONTINUING EDUCATION REFUND POLICY

- A student who withdraws from a class prior to the first day of class or if the class is canceled will be eligible for a 100 percent refund of the registration fee.
- After the class has started, a 75% refund will be made if the student withdraws prior to or on the 10% point of the class.
- An option to a refund: The student may request a transfer to another Continuing Education course before 10% of
 the course has expired. The course that is being transferred into must be within the same semester, have space
 available, and have the instructor's approval.
- 4. Exceptions to this policy can be made by the following:

Courses Originating In

Exceptions Made By

Continuing Education Division

Dean of Continuing Education

Polk Campus

Polk Campus Director

CONTINUING EDUCATION REPETITION POLICY

Continuing Education students may enroll in a course as many times as necessary to accomplish their personal or educational/ training goals, provided they continue: 1.) to show progress, 2.) do not prohibit other students from participating, 3.) pay the appropriate fees, and 4.) do not violate North Carolina Department of Community College policy.

Students who take the same Occupational Extension course more than twice are required to pay for the actual cost of the course or the registration fee, whichever is more. This applies if the course is repeated within a five-year period since September 1, 1993. Courses taken for certification, licensure, or recertification are exempt from this policy.

CONTINUING EDUCATION UNITS

One Continuing Education Unit will be awarded for each 10 contact hours of instruction that will be determined prior to the beginning of the experience. A decision to award the CEU will be made after the program or activity has been offered. Calculations of contact hours will include the following elements:

- Classroom time with direct participation between the students and instructors will be converted directly to contact
- 2. Activities that use instruction such as supervised independent study, directed reading, or project based assignments will be awarded CEU's. Contact hours will be determined after finding the average amount of time and hours required to complete the learning activity.
- Field trips and other experiential course activities will be awarded CEU's. This will usually be done on the basis of two hours required for each contact hour of instruction.

The CEU is used in three ways, as follows:

- A unit of measure to recognize an individual's participation in non-credit activities that meet appropriate criteria.
- 2. The accounting unit of Isothermal Community College non-credit courses, programs, and activities.
- The basis for quality assurance in Continuing Education programming.

The Dean of Continuing Education and the Director of Polk Campus have responsibility for final determination of the CEU's awarded for a particular Continuing Education experience. The instructor will verify and report that each participant has or has not met the specified requirements for satisfactory completion and is or is not awarded a CEU. A permanent record of the student's participation will be maintained by Isothermal Community College.

OCCUPATIONAL EXTENSION

Occupational classes help adults build their job skills or knowledge. These classes are held on campus or in the workplace. Business, industry and public service organizations have benefited from their employee's development through occupational courses. Here are some examples of occupational oriented courses.

Leadership Rutherford **Emergency Medical Services**

Nursing Assistant Teacher Renewal Credit

Fire Fighting First Aid

Team Building Truck Driver Training

HRD Law Enforcement

SELF-ENRICHMENT

Self-enrichment courses help adults broaden their talents, stimulate their creativity, develop new skills, improve themselves, and just have fun. Examples of these courses include:

Cake Decorating

Crafts

Language & Culture

Pottery

Ceramics

Creative Writing

Music

Quilting

Computers Skills

Dance

Notary Public

Sign Language

Cooking & Nutrition

Health & Wellness

Painting

Vehicle Inspection/Emissions

ADULT BASIC EDUCATION

Adult Basic Education is designed for those who need basic reading, writing, and mathematics skills. It offers training that will help adults become better shoppers, consumers, workers, and problem solvers. Classes may be geared toward helping adults get better jobs or improving present literacy-related job skills. Emphasis is placed on individual study for advancement at one's own pace. The program uses a variety of materials, ranging from basic reading to high school entry level, which are designed for adults. Adult Basic Education uses the CASAS system.

Classes usually meet for a three-hour session twice a week. To accommodate a variety of student needs, both daytime and evening classes are scheduled. They are held on campus, in neighborhoods or work places throughout Rutherford and Polk counties. There are no fees for these classes.

Upon completion of basic instruction, the student is eligible to study toward an Adult High School Diploma or GED.

ENGLISH FOR SPEAKERS OF OTHER LANGUAGES - ESOL

The Adult Basic Skills Program offers ESOL. This program is designed for adults who want to learn the English language skills necessary to function effectively in an English-speaking environment. ESL classes are held on campus and in businesses and industries in Rutherford and Polk counties.

HRD PROGRAM

"Our mission is to educate and train individuals for success in the workplace." The HRD (Human Resources Development) programs help unemployed, under employed, and dislocated workers with motivation, attitudinal changes, and pre-job orientation. Instruction addresses six core competencies:

- 1. assessment of individual assets and limitations
- 2. development of a positive self-concept
- 3. development of employability skills
- 4. development of communication skills
- 5. development of problem-solving skills
- 6. development of awareness of information technology in workplace

The structured pre-employment training and counseling are designed to help participants achieve success. Students learn how to be better employees through a variety of instructional activities: individual participation, group interaction, discussion, creative expression, projects, team tasks. Students are encouraged to use their abilities, to develop attitudes and skills necessary to obtain and maintain satisfactory employment. Some classes include specific work-related training appropriate for employment such as basic office assistant, bank teller, child care worker.

COMPENSATORY EDUCATION

The Compensatory Education Program is provided for adults with mental handicaps. The focus of the program is on skills needed by adults with mental handicaps to function as independently as possible in society. It assumes an end result of productivity, employment, independence, and self-sufficiency. The education programming includes: language, math, social science, community living, consumer education, health, and vocational education.

These educational opportunities enable adults with mental handicaps to become more independent and self-directed. Also, they become more familiar with occupational skills and acquire skills to meet and manage community, social, work, and personal adult responsibilities.

In order to accommodate student needs, classes are offered during the day and evening with class hours being flexible. Classes are offered in communities, rest homes, and vocational workshops. There is no registration fee.

ADULT HIGH SCHOOL

The adult high school programs, Adult High School Diploma (AHSD) and the General Educational Development (GED), provide self-paced, individualized instruction to adults. Guidelines for the AHSD program are established through the Department of Community Colleges and through a cooperative agreement with the Polk County Board of Education, the Rutherford County Board of Education, and Isothermal Community College. Guidelines for the GED program are set by the Department of Community Colleges and the American Council on Education. Both programs are offered in Rutherford and Polk County.

Any 18 year old or older may enroll in either program. A sixteen or seventeen year old may apply with special written permission from proper authorities.

ADULT HIGH SCHOOL DIPLOMA REQUIREMENTS

- 1) Satisfactory completion of units in English, mathematics, social studies, sciences, and health.
- Satisfactory completion of elective units.
- 3) Passing score on the North Carolina Competency Test.

GENERAL EDUCATIONAL DEVELOPMENT (GED) GED Testing

A North Carolina High School Equivalency Diploma is awarded upon satisfactory completion of a series of tests in the areas of writing, reading, social studies, science, and mathematics. Spanish verions of the tests are also available. Anyone interested in taking the GED tests should first contact the Adult High School Coordinator in the Oak Room of the Foundation (828-286-3636 ext. 218). GED Testing accommodations may be available to examinees with documented disabilities. Contact the Chief Examiner (828-286-3636 ext. 243) for more information.

GED practice tests and GED study material are available in all classes. Individual scores on the practice GED test determine whether or not the student needs to study and determines the subject(s) to review before attempting the official test. A student must be a resident of North Carolina to take the official GED test in North Carolina.

Classes are offered in communities throughout Rutherford and Polk counties, in industries, and on both the Spindale and Polk campuses. Morning, afternoon, and evening classes are available. There is no registration fee. There is a charge of \$7.50 for the GED test.

PROFESSIONAL TRUCK DRIVER TRAINING

www.isothermal.edu/truck

The Professional Truck Driver Training is a certified program of the Professional Truck Driving Institute. This 168 hour program is offered in daytime or evening classes. Work with the truck in addition to classroom, will be scheduled at times from early morning to late evening, Monday-Sunday. Classes start about every five weeks.

PROGRAM FEATURES

44 hours of individual driving time and 124 hours of classroom One-on-one instruction behind the wheel Satisfaction guarantee CDL State testing conducted in-house Job placement assistance, if needed

ADMISSION REQUIREMENTS

21 years of age to drive interstate
High School or GED graduate. Non-graduates can take a placement test
Valid driver's license
Motor vehicle driving record free of any current serious offenses
Be able to pass a DOT physical and drug screen

PROGRAMS OF STUDY

Programs of study fall into two major categories—college transfer and career preparation. The Associate of Arts and Associate of Science Degree Programs are designed primarily for students planning to transfer to a four-year college or university. The Associate of Applied Science Degree, Diploma, and Certificate Programs are designed for career preparation. Some Associate of Applied Science Degree Programs are also transferable to four-year colleges and universities.

DEGREE PROGRAMS

Program	Code
ARTS AND SCIENCES	
Associate of Arts	A 10 10 0
Associate of Science	A 10 40 0
BUSINESS TECHNOLOGIES	
Business Administration	A 25 12 0
Banking and Finance	A 25 12 A
Marketing and Retailing	A 25 12 F
Computer Programming	A 25 13 0
Computer Information Technology	A 25 26 0
Entrepreneurship	A 25 49 0
Information Systems Security	A 25 27 0
Medical Office Administration	A 25 31 0
Networking Technology	A 25 34 0
Office Administration	A 25 37 0
Web Technologies	A 25 29 0
COMMERCIAL & ARTISTIC PRODUCTION	N TECHNOLOGIES
Advertising and Graphic Design	A 30 10 0
Broadcasting and Production Technology	A 30 12 0
CONSTRUCTION TECHNOLOGIES	
Building Construction Technology	A 35 14 0
Electrical/Electronics Technology	A 35 22 0
ENGINEERING TECHNOLOGIES	
Computer Engineering Technology	A 40 16 0
Electronics Engineering Technology	A 40 20 0
Mechanical Engineering Technology	A 40 32 0
Sustainability Technologies	A 40 37 0
HEALTH SCIENCES	
Associate Degree Nursing	A 45 11 0
INDUSTRIAL TECHNOLOGIES	
Industrial Systems Technology	A 50 24 0
Manufacturing Technology	A 50 32 0
Mechanical Drafting Technology	A 50 34 0
Welding Technology	A 50 42 0
PUBLIC SERVICE TECHNOLOGIES	
Cosmetology	A 55 14 0
Criminal Justice Technology	A 55 18 0
Early Childhood Education	A 55 22 0
General Occupational Technology	A 55 28 0
Occupational Education Associate	A 55 32 0
School - Age Education	A 55 44 0

DIPLOMA PROGRAMS

Program	Code
ARTS & SCIENCES	
Diploma of Arts	D 10 10 0
Diploma of Science	D 10 40 0
BUSINESS TECHNOLOGIES	
Business Administration	D 25 12 0
Medical Office Administration	D 25 31 0
Office Administration	D 25 37 0
COMMERCIAL & ARTISTIC PRODUCTION	N TECHNOLOGIES
Broadcasting and Production Technology	
Audio Production	D 30 12 0 01
Video Production	D 30 12 0 02
CONSTRUCTION TECHNOLOGIES	
Building Construction Technology	
Carpentry	D 35 14 0 01
Cabinetmaking	D 35 14 0 02
ENGINEERING TECHNOLOGIES	
Computer Engineering Technology	D 40 16 0
Sustainability Technologies	D 40 37 0
HEALTH SCIENCES	
Practical Nursing	D 45 66 0
Surgical Technology	D 45 74 0
INDUSTRIAL TECHNOLOGIES	
Computer-Intergrated Machining	D 50 21 0
Mechanical Drafting Technology	D 50 34 0
Welding Technology	D 50 42 0
PUBLIC SERVICE TECHNOLOGIES	
Cosmetology	D 55 14 0
Criminal Justice Technology	D 55 18 0
Early Childhood Education	D 55 22 0
General Occupational Technology	D 55 28 0
Occupational Education Associate	D 55 32 0
TRANSPORTATION SYSTEMS TECHNOLO	OGIES
Collision Repair and Refinishing Technology	D 60 13 0

CERTIFICATE PROGRAMS

Program	Code
BUSINESS TECHNOLOGIES	
Business Administration	C 25 12 0
Business Administration/Bookkeeping	C 25 120 01
Computer Information Technology	C 25 26 0
Entrepreneurship	C 25 49 0
Medical Office Administration	C 25 31 01
Medical Coding	C 25 310 02
Medical Transcription	C 25 310 03
Networking Technology	C 25 34 0
Office Administration	C 25 37 0
Web Technologies	C 25 29 0
COMMERCIAL & ARTISTIC PRODUCTION	TECHNOLOGIES
Broadcasting and Production Technology	
Basic Audio Production	C 30 12 0 01
Basic Video Production	C 30 12 0 02
CONSTRUCTION TECHNOLOGIES	
Building Construction Technology	
Basic Carpentry	C 35 14 01
Advanced Carpentry	C 35 14 02
Basic Plumbing	C 35 14 03
General Contractor Licensing Preparation	C 35 14 05
Cabinetmaking	C 35 14 06
Masonry	C 35 14 07
Basic Construction	C 35 14 08
	C 35 14 08
Elementary Carpentry	C 33 14 09
Electrical/Electronics Technology	6.25.22.0
Industrial Controls Electrical Wiring	C 35 22 0 C 35 22 1
ENGINEERING TECHNOLOGIES	
Computer Engineering Technology	
Computer Upgrade/Repair	C 40 16 0
Sustainability Technologies	C 40 37 0
HEALTH SCIENCES	
Licensed Practical Nurse Refresher	C 45 39 0
INDUSTRIAL TECHNOLOGIES	
Machining Technology	
Machining	C 50 30 001
CNC	C 50 30 002
Motorsports Machining	C 50 30 003
Mechanical Drafting Technology	C 50 34 0
Welding Technology	C 50 42 0
PUBLIC SERVICE TECHNOLOGIES	
Basic Law Enforcement Training	C 55 12 0
Cosmetology Instructor	C 55 16 0
Criminal Justice Technology	C 55 18 0
Early Childhood Education	C 55 22 0
Esthetics Instructor	C 55 27 0
Esthetics Technology	C 55 23 0
Infant/Toddler Care	C 55 29 0
Manicuring Instructor	C 55 38 0
Manicuring/Nail Technology	C 55 40 0
Occupational Education Associate	C 55 32 0
TRANSPORTATION SYSTEMS TECHNOLO	OGIES
Collision Repair and Refinishing Technologies	
	AL AN AN A AN
Basic Collision Repair and Refinishing Advanced Collision Repair and Refinishing	C 60 13 0 01 C 60 13 0 02

ONE PLUS ONE PROGRAMS

Physical Therapy Assistant, Dental Hygiene, and Occupational Therapy Assistant

Through an agreement with Greenville Technical College, a limited number of Isothermal students can enter these vital health care programs. These programs are arranged as two separate components called One Plus One (1+1). The first component is taken at Isothermal and the second at Greenville Tech. Please contact the Arts and Sciences Dean for further information.

Health Information Technology

Health Information Technology is a 1+1 collaborative agreement program between McDowell Technical Community College and Isothermal Community College. For more information, please see the dean of Business Sciences.

COOPERATIVE EDUCATION PROGRAM

Cooperative Education is an alternative college program in which students are employed for specific periods of on- or off-campus work. This employment is related as closely as possible to each student's course of study and individual interest. The blend of classroom theory and practical on-the-job training adds a vital dimension to learning experiences. Numerous advantages accrue from the Cooperative Education approach to learning, such as career direction and financial assistance for participating students, a source of manpower for employers, and an avenue to better relate the college to the community.

A student may participate in the Co-Op Program and earn credit toward degree requirements depending on his/her major. In order to be eligible for the Co-Op Program, the student must:

- 1. Be enrolled in a curriculum program that includes Co-op as an option or requirement.
- 2. Have been at Isothermal for at least 1 semester.
- 3. Have at least a 2.0 GPA.
- 4. Be employable.
- 5. Be at least 17 years of age.
- 6. Have met the curriculum restrictions in accordance with the NCCCS Curriculum Procedures.

ACADEMIC DEVELOPMENT

This college level educational support program is designed to enable students to complete their chosen curriculum by increasing options for academic success.

Students whose placement tests indicate a need for one or more courses at the 060, 070, 080, 085, 090, or 095 level are given a specific in-class diagnostic exam to further assess strengths and needs in the areas of English, college reading, and mathematics. These diagnostic exams help instructors plan programs that will help students be successful.

Courses are offered in various levels of English, college reading, and mathematics. Class formats include self-paced, lecture, web-assisted, and online instruction. In every case, instructors work with students to provide them with a foundation for confident, life-long learning.

Both day and evening classes are available in the following Academic Development Courses:,

ENG 080 Writing Foundations **ENG 085** Reading and Writing Foundations Composition Strategies ENG 090 & ENG 090A Reading & Composition Strategies ENG 095 Introduction to College Reading **RED 080** Improved College Reading **RED 090 Essential Mathematics** MAT 060 **MAT 070** Introductory Algebra MAT 080 Intermediate Algebra

B. Other Academic Development Services Available:

Supplemental Instruction

Smarthinking Writing Lab

ARTS AND SCIENCES PROGRAM

Objectives:

The primary objective of the Arts and Sciences Curricula is to provide students with the general education courses required in the first two years of a traditional four-year degree. Depending on proposed majors at the four-year schools, students at Isothermal Community College will pursue either the A.A. (Associate of Arts) or the A.S. (Associate of Science) degree.

Graduation Requirements:

Students enrolled in both the A.A. and the A.S. degree programs must earn 65 semester hours in designated disciplines with an overall grade point average of 2.0 to graduate. Both programs require a 44 hour general education core as well as other institutional requirements. A.S. degree students are required to take additional hours in upper level math and science while A.A. degree students take more electives in the liberal arts.

Transfer Core Diploma

A Transfer Core Diploma is an option for students who complete the 44 hour core but do not plan to complete the A.A. or A.S. degree before transferring. See advisors in Arts and Sciences for additional information.

Transferability of courses:

A Comprehensive Articulation Agreement (C.A.A.) between the North Carolina Community College System and the 16 institutions of the University of North Carolina contains the following components:

- 1. Students who complete the A.A. or A.S. degree at a college within North Carolina Community College System are assured admission to one of the 16 universities within the UNC system and will transfer as juniors. They will still be responsible for any institutional requirements at the transfer university, such as foreign language. If these requirements have not been met at the community college, they will have to be completed at the transfer university. (Note: This agreement does not guarantee acceptance at the student's first choice institution.)
- Students who complete the 44 hour general education core at a college within the North Carolina Community College System will have met the general education requirements at the universities within the North Carolina University System. Some universities have institutional requirements such as foreign language which, if not taken as a part of the 44 hour core, will be required after transfer.
- Students who transfer before completing the 44 hour core will have transcripts evaluated on a course by course basis and will be required to meet the general education requirements of the transfer institution.
- * An Independent Comprehensive Articulation Agreement (I.C.A.A.) allows for transfer to a limited group of private colleges.

Students who transfer to private colleges that are not included in the LC.A.A. or to public universities outside of North Carolina will have transcripts evaluated in accordance with their policies. The final decision on transferability rests with the transfer institution.

The average rate of student persistence toward degree completion at Isothermal Community College is available in the office of Student Affairs.

GRADUATION COURSE REQUIREMENTS ASSOCIATE OF ARTS (A.A.) - DEGREE (A 10 10 0)

The Associate of Arts degree will be awarded to those students completing the general liberal arts requirements listed below. When considering options, students should consult four-year college catalogs to determine institutional and program requirements at the schools to which they intend to transfer.

44 hours general education core

Subject Composition/Communication	<u>Course (s)</u> ENG 111, 112, 113, 114	Minimum Credit Hours 6
Literature	Two courses from: ENG 231, 232, 233, 241, 242, 261, 262	6
Humanities/Fine Arts	Two courses with two different prefixes from: ART 111, DRA 122 HUM 115, 120, 122, 130, 160, 211, 212, 220 MUS 110, 112, 113, 114 PHI 215, 220, 221, 240 REL 110, 111, 112, 211, 212 SPA 111/181, 112/182, 211/281, 212/282	6
History	*Two courses from the following: HIS 111, 112 or 131,132	6
Social/Behavioral Science	Two courses with two different prefixes from: ANT 210, 220, ECO 251, 252, GEO 111, 113, 130 POL 120, 220, PSY 150, 237, 241, 281 SOC 210, 213, 220	6
Mathematics	Two courses from the following: MAT 140, 151, 161, 162, 171, 172, 175, 263, 271, 272, 273 (One course must be an introductory college level math course such as 161 or 171) Note: Elementary, Middle Grades, and Special Education majors may tak MAT 141, 142 for the math requirement pending trans school preferences.	
Laboratory Science	Two laboratory science courses from the following: AST 111, 151, 152, BIO 110, 111, 112, 120, 140, GEL 111, 113, CHM 131, 132, 151, 152, PHY 110, 151, 152, 251, 252	8
Other Requirements: Orientation	**ACA 115 and ACA 122	1
Physical Education	PED 110 or 111 and one PED activity course	2
Computer Requirement	CIS 110 or higher level course	3
Electives	(Choose from approved list of transferable courses)	15
Total Hours:		64-65**

*HIS 111 & 112 are preferred by many universities.

^{**}ACA 115 and ACA 122 are institutional requirements not included in the 64 hour state requirement.

GRADUATION COURSE REQUIREMENTS ASSOCIATE OF SCIENCE (A.S.) - DEGREE (A 10 40 0)

The Associate of Science degree will be awarded to students who complete the requirements listed below. Students planning to transfer to science/math based programs within the UNC System should also follow the guidelines in articulation agreements available through advisors and/or consult four-year college catalogs when considering course options.

44 hours general education core

Subject Composition/Communication	Course (s) ENG 111, 112, 113, 114	Minimum Credit Hours 6
Literature	One courses from: ENG 231, 232, 233, 241, 242, 261, 262	3
Humanities/Fine Arts	Two courses with two different prefixes from: ART 111, HUM 115, 120, 122, 130, 160, 211, 212, 3 MUS 110, 112, 113, 114 PHI 215, 220, 221, 240	002
	REL 110, 111, 112, 211, 212	6
History	One courses from: *HIS 111,112, or HIS 131, 132	3
Social/Behavioral Science	Two courses with two different Prefixes from: ANT 210, 220, ECO 251, 252, GEO 111, 113, 130, POL 120, 220 PSY 150, 237, 241, 281, SOC 210, 213	6
Mathematics	Two courses from the following: MAT 175, (171 and 172), 271, 272	6
Laboratory Science	Two courses from the same discipline: BIO 111, 112, CHM 151, 152, PHY 151, 152, 251, 252	8
Other Requirements:		
Orientation	**ACA 115 and ACA 122	1
***Additional hours in upper level n	nath and science	14-16
Electives		2-4
Total Hours:		64-65

NOTE: Computer competency is a must for A.S. degree students; CIS 110 or a higher level computer course is recommended. *HIS 111 & 112 are preferred by most universities.

**ACA 115 and ACA 122 are institutional requirements not included in the 64 hour state requirement.

HEALTH SCIENCES

Associate Degree Nursing - Degree (A 45 11 0)

Curriculum Description

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

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.

			Class Hours	Lab Hours	Clin. Hours	Credit Hours
I.	General Edu	cation Requirements - 26 Credit Hours				
	BIO 168	Anatomy & Physiology I	3	3	0	4
	BIO 169	Anatomy & Physiology II	3	3	0	4
	BIO 175	General Microbiology	2	2	0	3
	ENG 111	Expository Writing	3	0	0	3
	ENG 113	Literature Based Research	3	0	0	3
		Humanities Elective	3	0	0	3
	PSY 150	General Psychology	3		0	3
	PSY 241	Developmental Psychology	3	0	0	3 3 3 3 3
11.	Required Co	re Courses - 43 Credit Hours				
	NUR 111	Intro to Health Concepts	4	6	6	8
	NUR 112	NUR 112: Health-Illness Concepts	3	0	6	5 5 5 5 5
	NUR 113	Family Health Concepts	3	0	6	5
	NUR 114	Holistic Health Concepts	3	0	6	5
	NUR 211	Health Care Concepts	3	0 0 3	6	5
	NUR 212	Health System Concepts	3	0	6	5
	NUR 213	Complex Health Concepts	4	3	15	10
III.	Other Major	Required Courses - 4 Credit Hours*				
63333	NUR 214	Nursing Transistion Concepts	3	0	3	4
IV.	Other Requi	red Hours - 1 Credit Hour				
0.785.00	ACA 115	Success & Study Skills	0	2	0	1

Total Required Hours

Note: The Associate Degree A 45 11 0 is offered for students entering the program in fall 2009. Students admitted to the program before fall 2009 are in the Associate Degree Nursing Non-Inegrated-Degree A 45 12 0 program. If a student's progress in the program is interrupted after the new curriculum A 45 11 0 begins, that student must re-apply to the A 45 11 0 curriculum.

Licensed Practical Nurse Refresher - Certificate (C 45 39 0)

Curriculum Description

The Licensed Practical Nurse Refresher curriculum provides a refresher course for individuals previously licensed as Practical Nurses and who are ineligible for reentry into nursing practice due to a lapse in licensure for five or more years. *Individuals entering this curriculum must have been previously licensed as a Practical Nurse*.

Course work includes common medical-surgical conditions and nursing approaches to their management, including mental health principles, pharmacological concepts, and safe clinical nursing practice.

Graduates will be eligible to apply for reinstatement of licensure by the North Carolina Board of Nursing. Employment opportunities include hospitals, long term care facilities, clinics, physicians' offices, industry, and community health agencies.

NUR 107	LPN Refresher	Class Hours 9	Lab <u>Hours</u> 0	Clin. Hours 9	Credit Hours 12
Total Required Hours					12

^{*}For students accepted as advanced placement, pending approval by NCCCS.

PRACTICAL NURSE EDUCATION (PNE) ADMISSIONS PROCESS

Applicants for the Practical Nurse Program must fulfill the following general admission requirements to be admitted to Isothermal Community College. Materials can be submitted to Admissions, PO Box 804, Spindale, NC 28160.

1. Complete an application for admission to ICC (paper or online at www.isothermal.edu/admissions).

 Submit all official and sealed high school transcript(s) or GED scores (must be a high school graduate or the equivalent) from the issuing institution to the Admissions Office.

3. Submit all official and sealed college transcript(s) from the issuing institution to the Admissions Office. Please note that

transfer credit can only be awarded for courses that reflect a GPA of 2.0 or higher.

4. Complete college placement test (ASSET/COMPASS), which includes Reading, Writing and Math skills. Schedule of times and dates are available in the office of Learning Support and Retention, Student Center Bld.10. Applicants who have completed college level courses in English, math, and reading at an accredited college(s) with a grade of "C" or better are exempt from the tests. Completion of only one of the above will require testing in the other areas. Academic Development or enrichment courses completed at an accredited college with a grade of "C" or better may be considered in determining placement test exemptions.

**The requirements above are only steps to complete the general admission requirements for Isothermal Community College. The section above does not fulfill the other requirements to be considered for admission into the LPN program. You must continue to

follow the steps below. **

Pre-Health Science Advisor Requirements

Complete all Academic Development courses required as a result of placement tests with a grade of "C" or better.

Improved College Reading

RED 090

Composition Strategies

ENG 090 & ENG 090A

Essential Mathematics

MAT 060

6. Overall, cumulative grade point average of 2.0 in all college courses.

7. Submit three (3) references completed by people other than family or close friends, in sealed envelopes. Persons giving references must sign the back of the envelope over the seal. School and work references are preferred. Reference forms are included in this information packet. References must be returned to Tina Porter, Pre-Health Science Advisor, located in the Student Center building. References are only good for a two year period. After this period the student must submit new references.

Must have NA I or be enrolled in a course in order to sit for the National Standardized Testing session.

9. You are responsible for making sure that all requirements have been met and that all materials have been received by the Pre-Health Science Advisor according to the deadlines listed. The Pre-Health Science Advisor must have a current/accurate mailing address and phone number for you. ***When the above requirements have been satisfied, the applicant will be invited to participate in a National Standardized Testing session to complete the selections process.**

Completion of these requirements will NOT guarantee admission into the program.

11. Students are encouraged to enroll in and complete the following required courses prior to being admitted to the PNE program. BIO 168 and BIO 169

ENG 111-Expository Writing

PSY 110-Life Span Dev. or [PSY 150 Gen. Psych and PSY 241-Dev. Psych]

ACA 115-Success & Study Skills

While waiting for admission, students are encouraged to complete other courses such as CNA II,

Medical Terminology I, and Medical Terminology II.

 All applicants' information must be updated annually. If you have previously applied, you must re-initiate the process including aptitude exam re-testing.

Practical Nursing Program Requirements for those accepted into the program:

13. In order to maintain acceptance status, each applicant must be listed on the North Carolina NA I registry by the first day of summer semester. (For information on registry verification go to www.ncnar.org; for questions regarding steps leading to registry listing go to www.pearsonvue.com, formerly www.promissor.org.).

14. Accepted students <u>must</u> have an Isothermal Community College student ID card made prior to the start of the program. ID cards are made during the first few weeks of Fall and Spring semester. Student ID cards are issued without charge to students

who have paid the student activity fee.

15. Accepted students <u>must</u> complete Basic Cardiac Life Support (CPR) for the Healthcare Provider that is offered through the American Heart Association. Must provide proof when submitting medical forms to the PN Director.

16. Upon acceptance into the LPN program, the following items must be completed at the student's expense.

Criminal Background Check, OIG (Office of Inspector General) Check and Drug Testing

An acceptable background check is required for clinical experiences. The background checks will be completed during the first semester, NUR 101. Students must be able to attend clinical experiences in all agencies used by the college. Information for obtaining the background checks will be provided to all students by the Director of PNE.

While the above information is not required by Isothermal Community College for either general college admission or entrance into the nursing program, students should be aware that this information will be required by the personnel department at your future clinical location. Failure to provide this information to a clinical site in a timely fashion could result in a cancellation of your clinical site arrangements.

***If there are any questions, please call Tina M. Porter, Health Sciences Specialist at (828) 286-3636, extension 361 or e-mail:

tporter@isothermal.edu Located in the Student Center (Building # 10)

Practical Nursing - Diploma (D 45 66 0)

Curriculum Description

The Practical Nursing curriculum prepares individuals with the knowledge and skills to provide nursing care to children and adults.

Students will participate in assessment, planning, implementing, and evaluating nursing care.

Graduates 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.

			Class Hours	Lab Hours	Clin. Hours	Credit Hours
I.	General Edu	cation Requirements - 6 Credit Hours				
	ENG 111	Expository Writing	3	0	0	3
	PSY 110	Life Span Development	3	0	0	3
II.	Required Co	re Courses - 33 Credit Hours				
	NUR 101	Practical Nursing I	7	6	6	11
	NUR 102	Practical Nursing II	8	6 0 0	12	12
	NUR 103	Practical Nursing III	6	0	12	11 12 10
III.	Other Major	Required Courses - 8 Credit Hours				
	BIO 168	Anatomy and Physiology I	3	3	0	4
	BIO 169	Anatomy and Physiology II	3	3	0	4
IV.	Other Requi	red Hours - 1 Credit Hour				
	ACA 115	Success & Study Skills	0	2	0	1
Total	Required Hour	s				48

SURGICAL TECHNOLOGY ADMISSION PROCESS

Isothermal Community College, in conjunction with Cleveland Community College and McDowell Technical Community College, will offer a one-year diploma program in Surgical Technology. This program prepares individuals to assist in the care of surgical patients in the operating room and to function as a member of a surgical team. Students will apply theoretical knowledge to the care of patients undergoing surgery, develop skills necessary to prepare patients for surgery, and assist surgeons during operations.

The Foothills Surgical Technology Consortium includes:

Cleveland Community College, Cleveland County
137 South Post Road, Shelby, NC 28150 (704) 484-4000
Isothermal Community College, Rutherford and Polk County
286 ICC Loop Road, PO Box 804, Spindale, NC 28160 (828) 286-3636
McDowell Technical Community College, McDowell County
54 College Drive, Marion, NC 28752 (828) 652-6021

Prospective Surgical Technology candidates residing in the counties listed above must apply to the college serving their county. Applicants of other counties may apply to the college of their convenience. Priority will be given to service area applicant's first, then other North Carolina residents, then out-of-state students.

Graduates of this program will be eligible to apply to take the National Board of Surgical Technology and Surgical Assisting Exam. All Surgical Technology classes will be held in Cleveland Community College.

Employment opportunities include: Inpatient/outpatient surgery centers, labor/delivery units, dialysis units/facilities, physicians' offices, and central supply processing units.

Applicants for the Surgical Technology Program must meet the following general admission requirements in order to be considered for admission:

- Complete and submit an application for admission to Isothermal Community College. Current or returning students may complete a Change of Major Form to declare Surgical Technology as their intended major.
- Submit an Official high school transcript or GED transcript (must be a high school graduate or the equivalent.) (Official transcripts must be in a sealed envelope from the sending school.)

Submit an Official transcript from all colleges attended. College courses accepted for transfer must reflect a 2.0 grade point average. (Official transcripts must be in a sealed envelope from the sending school.)

4. Complete the ASSET/COMPASS placement test. The placement tests consist of four parts: Reading, Writing, Numerical skills, and Algebra. Applicants who have completed college level courses in English, reading and math at accredited college(s) with a grade of "C" or better are exempted from the test. Exemptions are, also possible with SAT/ACT scores. Developmental or enrichment courses completed at an accredited college with a grade of "C" or better may be considered in determining placement test exemptions. Placement tests can not be arranged until previous steps have been completed. Contact the office of Learning Support and Retention at 286-3636 ext. 266 for dates and times.

5. Complete all Academic Development courses required as a result of placement testing with a grade of "C" or better by the

specified deadline.

Improved College Reading

RED 090

Composition Strategies

ENG 090 & ENG 090A

Essential Mathematics

MAT 060

6. Must have a cumulative 2.0 GPA in most recent high school/college/GED course work.

Completion of (Steps 1-6) does not guarantee admission

7. Upon acceptance into the Surgical Technology program, the following items must be completed.

Criminal Background Check, OIG (Office of Inspector General) Check and Drug Testing

Students should be aware upon admission to a program with a clinical component that criminal background checks and/or drug testing may be required by the clinical site used by the Consortium. Isothermal Community College is an open door college and will not refuse admission to anyone based on a criminal record. However, the clinical site reserves the right to refuse to permit someone with a criminal record, positive drug test, and/or visible tattoo to use its facility. Information for obtaining the background checks will be provided to all students by the Director of the Surgical Technology program. If a student does not complete the clinical portion, he or she will not be able to successfully complete the Surgical Technology Program.

It is required that all accepted students have the HEPATITIS B SERIES. One shot should be completed before entering the program. Malpractice and accident insurance is required of all accepted applicants. This charge will be added to the tuition and fees at the time of registration.

Ten (10) students from each consortium school will be accepted into the Surgical Technology program. Final admission will be based on:

- a. Review of the applicant's academic record.
- b. PSB-Health Occupations Aptitude Exam results.
- Documentation of physical and emotional health that would provide evidence indicative of the applicant's ability to provide safe care to the public.
- d. Completion of required immunizations.
- e. Completion of CPR certification

If you have further questions, please contact Tina M. Porter, Counseling/Health Sciences Specialist, at 828-286-3636 Ext. 361

Surgical Technology - Diploma (D 45 74 0)

Curriculum Description

The Surgical Technology curriculum prepares individuals to assist in the care of the surgical patient in the operating room and to function as a member of the surgical team.

Students will apply theoretical knowledge to the care of patients undergoing surgery and develop skills necessary to prepare supplies, equipment, and instruments; maintain aseptic conditions; prepare patients for surgery; and assist surgeons during operations.

Graduates of this program will be eligible to apply to take the Liaison Council's Certification Examination for Surgical Technologists. Employment opportunities include labor/delivery/emergency departments, inpatient/outpatient surgery centers, dialysis units/facilities, physicians' offices, and central supply processing units.

			Class Hours	Lab Hours	Clin. Hours	Credit Hours
I.	General Edu	cation Requirements - 6 Credit Hours				
	ENG 111	Expository Writing	3	0	0	3
	CIS 110	Introduction to Computers	3 2	2	0	3
11.	Required Co	re Courses - 33 Credit Hours				
	SUR 110	Intro to Surgical Technology	3	0	0	3
	SUR 111	Periop Patient Care	5	6	0	7
	SUR 122	Surgical Procedures I	5	6 3	0	6
	SUR 123	SUR Clinical Practice I	0	0	0 0 21	
	SUR 134	Surgical Procedures II	5	0	0	5
	SUR 135	SUR Clinical Practice II	0		12	4
	SUR 137	Prof Success Prep	1	0	0	1
m.	Other Major	Required Courses - 8 Credit Hours				
	* BIO 163	Basic Anatomy and Physiology	4	2	0	5
	BIO 175	General Microbiology	4 2	2	0	5
		d BIO 169 are recommended				
IV.	Other Requi	red Hours - 1 Credit Hour				
1,-7,6,7	ACA 115	Success & Study Skills	0	2	0	1
Total	Required Hour					48

ASSOCIATE OF APPLIED SCIENCE DEGREE (A.A.S.)

Graduation Requirements

An Associate of Applied Science (A.A.S.) Degree will be awarded to students completing a prescribed two-year program of study with a minimum of a 2.0 grade point average and passing all courses.

DIPLOMA and CERTIFICATE PROGRAMS

A diploma or certificate will be awarded to students completing a prescribed program of study of one year or less with a minimum of a 2.0 grade point average.

Degree, diploma, and certificate programs are listed alphabetically in the pages that follow. Upon completion of all courses listed in a program, the student is eligible to receive the program credential.

Advertising and Graphic Design - Degree (A 30 10 0)

Curriculum Description

The Advertising and Graphic Design curriculum is designed to provide students with knowledge and skills necessary for employment in the graphic design profession which emphasizes design, advertising, illustration, and digital and multimedia preparation of printed and electronic promotional materials.

Students will be trained in the development of concept and design for promotional materials such as newspaper and magazine advertisements, posters, folders, letterheads, corporate symbols, brochures, booklets, preparation of art for printing, lettering and typography, photography, and electronic media.

Graduates should qualify for employment opportunities with graphic design studios, advertising agencies, printing companies, department stores, a wide variety of manufacturing industries, newspapers, and businesses with in-house graphics operations.

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requirements - 15 Credit Hours	Profession .	REMOVEMBRE.	puncturated.
	ENG 111	Expository Writing	3	0	3
	ENG 113	Literature - Based Research	3	0	3
	(1987) 198 (1989)	OR			
	ENG 114	Professional Research & Reporting			
	MAT 115	Mathematical Models	2	2	3
		Humanities Elective	2 3	2	3 3
		Social Science Elective	3	0	3
п.	Required Co	re Courses - 7 Credit Hours			
	GRD 110	Typography I	2 2	2 4	3
	GRD 280	Portfolio Design	2	4	4
ш.	Required Su	bject Courses - 22 Credit Hours			
	ART 131	Drawing I	0	6	3
	GRD 131	Illustration I	1	3	3
	GRD 141	Graphic Design I		4	4
	GRD 142	Graphic Design II	2 2	4	4
	GRD 151	Computer Design Basics	1	4	4 4 3 3
	GRD 152	Computer Design Tech I	1	4	3
	ART 121	Design I	0	6	3
IV.	Other Major	Required Courses - 26 Credit Hours			
	GRA 110	Graphic Arts Orientation	2	0	2
	GRD 111	Typography II	2	2 3 4	2 3 2 3 3 4 4 2 5
	GRD 132	Illustration II	1	3	2
	GRD 153	Computer Design Tech II	1		3
	GRD 160	Photo Fundamentals I	1	4	3
	GRD 161	Photo Fundamentals II	1	4	3
	GRD 241	Graphic Design III	2 2 2	4	4
	GRD 242	Graphic Design IV	2	4	4
	GRD 281	Design of Advertising	2	0	2
		Iours To Be Selected From The Following:			5
	ART 132	Drawing II			
	ART 140	Basic Painting			
	BUS 230	Small Business Management			
	COE 111	Co-op Work Experience I			
	COE 121	Co-op Work Experience II			
	GRA 121	Graphic Arts I			
	GRD 133	Illustration III			
	GRD 162	Photography Portfolio			
	GRD 210	Airbrush I			
	GRD 263	Illustrative Imaging			
	WEB 110	Internet/Web Fundamentals			
	WEB 120	Intro Internet Multimedia			
	WEB 140	Web Development Tools			
V.	the state of the s	red Hours - 1 Credit Hour	1207	82	13
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	s			76

Collision Repair and Refinishing Technology - Diploma (D 60 13 0)

Curriculum Description

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.

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requirements - 6 Credit Hours	1000000		1000000
	ENG 101	Applied Communications I	3	0	3
	MAT 101	Applied Mathematics I	3 2	2	3
II.	Required Co	re Courses - 31 Credit Hours			
	AUB 111	Painting & Refinishing I	2	6	4
	AUB 121	Non-Structural Damage I	2	4	3
	AUB 131	Structural Damage I	2	4	4
	AUB 134	Autobody MIG Welding	1	4	3
	AUB 136	Plastics and Adhesives	1	4	3 3 3 4
	AUB 112	Painting & Refinishing II	2	6	4
	AUB 122	Non-Structural Damage II	2 2 2	6	
	AUB 132	Structural Damage II	2	6	4 4 2
	AUB 114	Special Finishes	1	2	2
ш.	Other Major	Required Courses - 11 Credit Hours			
	AUB 141	Mech & Elec Components I	2	2	3
	AUB 150	Automotive Detailing	1	3	2
	AUB 160	Body Shop Operations	1	2 3 0 2 2	
	AUB 162	Autobody Estimating	1	2	1 2 3
	CIS 110	Introduction to Computers	2	2	3
	BUS 230	OR Small Business Management			
Total	Required Hour	•			48

Collision Repair and Refinishing Technology - Certificates (C 60 13 0)

		Class	Lab	Credit
		Hours	Hours	Hours
Basic Collision Repair	r and Refinishing – 14 Credit Hours (C 60 13 001)			
AUB 111	Painting & Refinishing I	2	6	4
AUB 121	Non-Structural Damage I	1	4	3
AUB 131	Structural Damage I	2	4	4
AUB 134	Autobody MIG Welding	1	4	3
Advanced Collision R	tepair and Refinishing – 12 Credit Hours (C 60 13 002)			
AUB 112	Painting and Refinishing II	2	6	4
AUB 122	Non-Structural Damage II	2	6	4
AUB 132	Structural Damage II	2	6	4

Basic Law Enforcement Training - Certificate (C 55 12 0)

Curriculum Description

Basic Law Enforcement Training (BLET) is designed to give students essential skills required for entry-level employment as law enforcement officers with state, county, or municipal governments, or with private enterprise.

This program utilizes State commission-mandated topics and methods of instruction. General subjects include, but are not limited to, criminal, juvenile, civil, traffic, and 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.

CJC 100	Basic Law Enforcement Training	Hours	Lab <u>Hours</u> 30	Credit Hours 19
Total Required Hours				19

Broadcasting and Production Technology - Degree (A 30 12 0)

Curriculum Description

Students enrolled in the Broadcasting Production Technology curriculum will develop professional skills in radio, television, audio, video, and related applications.

Training will emphasize speech, script writing, production planning, editing, and post production. Students will also study the development of the broadcasting industry, sales, ethics, law, marketing, and management. Hands-on training and teamwork approaches are essential to the instructional process.

Upon successful completion, students are prepared to enter broadcasting, production, and related industries in a variety of occupations.

			Class Hours	Lab Hours	Co-Op Hours	Credit Hours
I.	General Edu	cation Requirements - 15 Credit Hours				
	ENG 111	Expository Writing	3	0	0	3
	ENG 113	Literature - Based Research	3	0	0	3
	VIII. 100 A. C.	OR				
	ENG 114	Professional Research and Reporting				
	MAT 115	Mathematical Models	2 3	2	0	3
		Humanities Elective	3	0	0	3 3 3
		Social Science Elective	3	0	0	3
II.	Required Co	re Courses - 13 Credit Hours				
	BPT 110	Introduction to Broadcasting	3	0	0	3
	BPT 111	Broadcast Law and Ethics	3	0	0	3
	BPT 112	Broadcast Writing	3 3 3	0 2 0	0	3 4 3
	BPT 113	Broadcast Sales	3	0	0	3
ш.	Other Major	Required Courses - 34 Credit Hours				
	Select A or B					
	(A)					
	BPT 135	Radio Performance I	0	6	0	2
	BPT 136	Radio Performance II	0	6		2 2 2
	BPT 137	Radio Performance III	0	6	0	2
	(B)	(Albert Co. A. Albert Control of State	-			
	BPT 235	TV Performance I	0	6	0	2
	BPT 236	TV Performance II	0	6	0	2 2 2
	BPT 237	TV Performance III	0	6	0	2

			Class Hours	Lab Hours	Co-Op Hours	Credit Hours
	Additional Ma	ojor Required Courses		SCALUS SALES	-	-
	BPT 131	Audio/Radio Production I	2	6	0	4
	BPT 132	Audio/Radio Production II	2 2 2 3 3 2	6	0	4
	BPT 140	Introduction to TV Systems	2	0	0	2 3 3
	BPT 210	Broadcast Management	3	0	0	3
	BPT 215	Broadcast Programming	3	0	0	3
	BPT 231	Video/TV Production I	2	6	0	4
	BPT 232	Video/TV Production II	2	6	0	4
	COE 111	Co-Op Work Experience I	0	0	10	1
	FVP 227	Multimedia Production	2	3	0	3
	Options: Sele	ct 12 credit hours from the following courses:				
	BPT 115	Public Relations	3	0	0	3
	BPT 121	Broadcast Speech I	2	0 3 3 6	0	3 3 2 2 3 2 2
	BPT 122	Broadcast Speech II	2	3	0	3
	BPT 138	Radio Performance IV	0	6	0	2
	BPT 139	Radio Performance V	0	6	0	2
	BPT 220	Broadcast Marketing	3	0	0	3
	BPT 238	TV Performance IV	0	6	0	2
	BPT 239	TV Performance V	0	6	0	2
	BPT 241	Broadcast Journalism 1	3	2	0	4
	BPT 242	Broadcast Journalism II	3	2	0	4
	BPT 250	Institutional Video	3 2 2	3	0	3
	BPT 260	Multi-Track Recording	2	2 3 2 2 0 0	0	
	CIS 110	Introduction to Computers	2	2	0	3
	COE 115	Work Exp. Seminar I	1	0	0	1
	COE 121	Co-Op Work Experience II	0	0	10	1
	WEB 110	Internet/Web Fundamentals	2	2	0	3
IV.	Other Require	ed Hours - 1 Credit Hour				
	ACA 115	Success & Study Skills	0	2	0	1
Total	Required Hours					75

Broadcasting and Production Technology / Audio Production - Diploma (D 30 12 0 01)

Total Required Hours

			Class Hours	Lab Hours	Co-Op Hours	Credi
I.	General Edu	ucation Requirements - 6 Credit Hours				
	ENG 111	Expository Writing	3 3	0	0	3
		Social Science Elective	3	0	0	3
п.	Major Requ	ired Courses - 40 Credit Hours				
	BPT 110	Introduction to Broadcasting	3	0	0	3
	BPT 111	Broadcast Law and Ethics	3	0	0	3
	BPT 112	Broadcast Writing	3	2	0	4
	BPT 113	Broadcast Sales	3	0	0	3
	BPT 121	Broadcast Speech I	2	0 0 2 0 3	0	3
	BPT 122	Broadcast Speech II	2	3	0	3 4 3 3 3
	BPT 131	Audio/Radio Production I	2	6	0	4
	BPT 132	Audio/Radio Production II	2	6	0	4
	BPT 135	Radio Performance I	0	6	0	2
	BPT 136	Radio Performance II	0	6	0	2
	BPT 137	Radio Performance III	0	6	0	4 2 2 2 3
	BPT 210	Broadcast Management	3	0	0	3
	CIS 110	Introduction to Computers	2	2	0	3
	COE 111	Co-Op Work Experience I	0	0 2 0	10	1
	COETH	CO-Op Work Experience 1				

Broadcasting and Production Technology / Video Production - Diploma (D 30 12 0 02)

			Class Hours	Lab <u>Hours</u>	Co-Op <u>Hours</u>	Credit Hours
I.	General Edi	acation Requirements - 6 Credit Hours				
	ENG 111	Expository Writing	3	0	0	3
		Social Science Elective	3	0	0	3
п.	Major Requ	ired Courses - 39 Credit Hours				
	BPT 110	Introduction to Broadcasting	3	0	0	3
	BPT 111	Broadcast Law and Ethics	3	0	0	3
	BPT 112	Broadcast Writing	3	2	0	
	BPT 113	Broadcast Sales	3	0	0	3
	BPT 121	Broadcast Speech I	3 2	3	0	3
	BPT 122	Broadcast Speech II	2	3	0	3
	BPT 140	Introduction to TV Systems	2	0	0	4 3 3 3 2
	BPT 231	Video/TV Production I	2 2	6	0	4
	BPT 232	Video/TV Production II	2	6	0	4
	BPT 235	TV Performance I	0	6	0	2
	BPT 236	TV Performance II	0	6	0	2 2 2 3
	BPT 237	TV Performance III	0	6	0	2
	CIS 110	Introduction to Computers	2	2	0	3
	COE 111	Co-Op Work Experience I	o	0	10	1
Total	Required Hour	rs				45

Broadcasting and Production Technology - Certificate (C 30 12 0)

		Class Hours	Lab Hours	Credit Hours
Basic Audio Producti	on - 18 Credit Hours (C 30 12 0 01)	AMMA	AACOME	AANMAL
BPT 121	Broadcast Speech I	2	3	3
BPT 131	Audio/Radio Production I	2	6	4
BPT 132	Audio/Radio Production II	2	6	4
BPT 135	Radio Performance I	0	6	2 2 3
BPT 136	Radio Performance II	0	6	2
BPT 260	Multi-Track Recording	2	2	3
Basic Video Production	on - 17 Credit Hours (C 30 12 0 02)			
BPT 140	Introduction to TV Systems	2	0	2
BPT 231	Video/TV Production I	2	6	4
BPT 232	Video/TV Production II	2	6	4
BPT 235	TV Performance I	0	6	2 2 3
BPT 236	TV Performance II	0	6	2
BPT 250	Institutional Video	2	3	3

Building Construction Technology - Degree (A 35 14 0)

Curriculum Description

The Building Construction Technology curriculum is designed to provide students with an overview of the building construction industry. Construction labs/lecture courses and other related classes, provide students with up-to-date knowledge on materials, trends, and techniques of the ever-changing construction industry.

Course work includes basic construction concepts such as general construction, blueprint reading, construction estimating, and project management. Students will also diversify their knowledge of construction in other areas such as electrical wiring, construction surveying, plumbing, statics/strength of materials, and HVAC.

Graduates should qualify for entry-level jobs in any general construction setting and be able to advance quickly to management positions such as supervisors, superintendents, project coordinators, project planners, estimators, and inspectors.

				Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requirements - 15 C	redit Hours	100 CO 400	- Same	
	ENG 111	Expository Writing		3	0	3
	ENG 113	Literature-Based Researc	h	3	0	3
		OR	<u> </u>			
	ENG 114	Professional Research &	Reporting	2		
	MAT 115	Mathematical Models		2	2	3
	3 X 4 W X 2 X	OR				
	MAT 161	College Algebra		2	0	2
		Humanities Elective		3	0	3
		Social Science Electives		3	0	3
п.		re Courses - 12 Credit Hou	s			
	BPR 130	Blueprint Reading/Const		1	2	2
	CST 131	OSHA/Safety/Certification	on	1 2 3 2	2 2 3 2	2 3 4 3
	CST 221	Statics/Structures		3	3	4
	CST 241	Planning/Estimating I		*	2	3
III.		bject Courses - 8 Credit Ho	urs	2	88	10
	CAR 111	Carpentry I		3	15	8
IV.	Other Major	Hours - 40 Credit Hours				
	BUS 230	Small Business Manager	nent	3	0	3
	CAR 112	Carpentry II		3	15	8
	CAR 114	Residential Bldg Codes		3 2 2	0	3
	CIS 110	Introduction to Compute	'S	2	2	3
	CST 211	Construction Surveying		2	3	3
	CST 251	Electrical Wiring System	S	2	2	3
	MAS 140	Intro to Masonry		1	0 2 3 2 2 3	3 3 3 3 2 2 2 3
	PLU 111	Intro to Basic Plumbing	1 To 1	1 2	3	2
	WOL 110	Basic Construction Skills Technical Electives (Sele		2	3	10
			Duct Systems I (1-3-2)			10
			ntial Building Code (1-2-2)			
			ntial System Design (2-2-3)			
			perations (3-3-4)			
			fmaking I (4-9-7)			
			tmaking II(5-12-9)			
		CAB 113 Cabine	tmaking III(4-6-6)			
			Carpentry (2-0-2)			
			try III (3-9-6)			
		CAR 115 Reside	ntial Planning/Estimating (3-0-3)			
		CAR 116 Metal CAR 150 Concre	raming (1-3-2) te Construction (2-9-5)			
			ng/Estimating II (3-2-4)			
			able Bldg Design (2-3-3)			
			ectural Drafting (1-2-2)			
			(2-3-3)			
			ry I (5-15-10)			
			ercial/Ind Plumbing (2-2-3)			
			Velding Processes (1-3-2)			
V.	Other Beau	red Hours - 1 Credit Hour	00000000000000000000000000000000000000			
**	Comer reedu	rea monta - r chean mont		35233	152.70	1/2 /

ACA 115 Success & Study Skills

0 2 1

Building Construction Technology / Carpentry - Diploma (D 35 14 0 01)

			Class Hours	Lab Hours	Credit Hours
I.		cation Requirements - 6 Credit Hours			
	ENG 101	Applied Communications I OR	3	0	3
	ENG 111	Expository Writing			
	MAT 101	Applied Mathematics I OR	2	2	3
	MAT 115	Mathematical Models			
II.	Major Requi	ired Courses - 8 Credit Hours			
	BPR 130	Blueprint Reading/Const	1	2	2
	CST 131	OSHA/Safety/Certification	2	2	3
	CST 241	Planning/Estimating I	2 2	2 2 2	2 3 3
m.	Required Su	bject Courses - 8 Credit Hours			
	CAR 111	Carpentry I	3	15	8
IV.	Other Major	Courses - 23 Credit Hours			
	BUS 230	Small Business Management	3	0	3
	CAR 112	Carpentry II	3	15	8
	CAR 113	Carpentry III	3	9	6
	CAR 114	Residential Bldg Codes	3	0	3
	WOL 110	Basic Construction Skills	3 3 3 2	0	3 8 6 3 3
v.	Other Requi	red Hours - 1 Credit Hour			
357	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	rs			46

Building Construction Technology / Cabinetmaking - Diploma (D 35 14 0 02)

5			Class Hours	Lab Hours	Credit Hours
I.		cation Requirements – 6 Credit Hours			
	ENG 101	Applied Communications I OR	3	0	3
	ENG 111	Expository Writing			
	MAT 101	Applied Mathematics I OR	2	2	3
	MAT 115	Mathematical Models			
п.	Major Requi	ired Courses - 33 Credit Hours			
	BPR 130	Blueprint Reading/Const	1	2	2
	CAB 110	Shop Operations	3	2 3	2 4 7
	CAB 111	Cabinetmaking I	4	9	7
	CAB 112	Cabinetmaking II	5	12	9
	CAB 113	Cabinetmaking III	4		6
	CST 131	OSHA/Safety/Certification	2	6	3
	DFT 115	Architectural Drafting	1	2	9 6 3 2
III.	Other Requi	red Hours – 1 Credit Hours			
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	s			40

Building Construction Technology - Certificate (C 35 14 0)

		Class Hours	Lab Hours	Credit
	Credit Hours (C 35 14 01)		Tab	
BPR 130	Blueprint Reading/Const	1	2	2
CAR 111	Carpentry I	3	15	2 8 3 3
CAR 114	Residential Bldg Codes	3	0	3
CST 241	Planning / Estimating I OR	2	2	3
CAR 115	Residential Planning/Estimating			
	- 14 Credit Hours (C 35 14 02)	55	AL III	100
CST 131	OSHA/Safety/Certification	2 3	2	3 3 8
BUS 230	Small Business Management	3	0	3
CAR 112	Carpentry II	3	15	8
	Credit Hours (C 35 14 03)		8	6
BPR 130	Blueprint Reading/Const	1	2 2	2
CST 241	Planning/Estimating I OR	2	2	3
CAR 115	Residential Planning/Estimating			
PLU 111	Intro to Basic Plumbing	1	3	2
PLU 211	Commercial/Ind Plumbing	1 2 2	3 2 2	2 3 3
CST 131	OSHA/Safety/Certification	2	2	3
General Contractor	Licensing Preparation - 13 Credit Hours (C 35 14 05)			
BPR 130	Blueprint Reading/Const	1	2	2
CAR 110	Introduction to Carpentry	2	0	2
CAR 114	Residential Building Codes	2 3 2 2	2 0 0 2 2	2 2 3 3
CST 131	OSHA/Safety/Certification	2	2	3
CST 241	Planning/Estimating I OR	2	2	3
CAR 115	Residential Planning/Estimating			
Cabinetmaking - 18	Credit Hours (C 35 14 06)			
BPR 130	Blueprint Reading/Const	1	2	2
CAB 111	Cabinetmaking I	4 5	9	7 9
CAB 112	Cabinetmaking II	5	12	9
Masonry - 14 Credit				
	Blueprint Reading/Const	1	2	2
MAS 110	Masonry I	5	15 2	10
MAS 140	Intro to Masonry	1	2	2
	- 14 Credit Hours (C 35 14 08)	- 4	927	720
BPR 130	Blueprint Reading/Const	1 2 2	2	2
CAR 110	Intro to Carpentry	2	0	2
CST 251	Electrical Wiring Systems	2	2	3
MAS 140	Intro to Masonry	1	2 0 2 2 3	2 2 3 2 2 3
PLU 111	Intro to Basic Plumbing	1	3	2
WOL 110	Basic Construction Skills	2	3	3
	try - 13 Credit Hours (C 35 14 09)	27		920
BPR 130	Blueprint Reading/Const	1	.2	8
CAR 111	Carpentry I	3 2	15	8
WOL 110	Basic Construction Skills	2	3	3

Business Administration - Degree (A 25 12 0)

Curriculum Description

The Business Administration curriculum is designed to introduce students to the various aspects of the free enterprise system. Students will be provided with a fundamental knowledge of business functions, processes, and an understanding of business organizations in today's global economy.

Course work includes business concepts such as accounting, business law, economics, management, and marketing. Skills related to the application of these concepts are developed through the study of computer applications, communication, team building, and decision making.

Through these skills, students will have a sound business education base for lifelong learning. Graduates are prepared for employment opportunities in government agencies, financial institutions, and large to small business or industry.

				Cla Ho		Lab Hours	Credit Hours
1.	General Edu	cation	Requirements - 15 Credit Hours	(co)con	-	THE PERSON NAMED IN	300000000000000000000000000000000000000
	ECO 252		n of Macroeconomics	3		0	3
	ENG 111	Ex	pository Writing	3 3 3 3		0	3 3 3 3
	Humanities e			3		0	3
	COM 231		olic Speaking	3		0	3
	*MAT 115		thematical Models	2		2	3
			ner than MAT 115 may be substituted.	=		0.77	174
п.	Required Co	re Co	urses - 19 Credit Hours				
	ACC 120	Pri	n of Financial Acet	3		2	4
	BUS 115	Bu	siness Law I	3 3 3 2		0	3
	BUS 137	Pri	nciples of Management	3		0	3
	CIS 110		roduction to Computers	2		2	3 3 3
	ECO 251		n of Microeconomics	3		0	3
	MKT 120	Pri	nciples of Marketing	3		0	3
III.	Other Major		ired Courses - 41 Credit Hours				
	ACC 121		in of Managerial Acct	3		2	4
	BUS 110		roduction to Business	3 2 3 2 3 3 3		2 3 2 0 2	3 3 3 3 3 3
	BUS 121		siness Math	2		2	3
	BUS 153		ıman Resource Management	3		0	3
	BUS 225		isiness Finance	2		2	3
	BUS 253		adership and Mgt. Skills	3			3
	BUS 260		siness Communication	3		0	3
	CTS 130		readsheet	2		2	3
	COE 110		orld of Work	1		0	1
	ACCOUNTI		rack) (12 – 13 credit hours)				
	ACC		Individual Income Taxes	2		2	3
	ACC		Practices in Bookkeeping	3		õ	3
	BAF		Principles of Banking	3		0	3
	ETR		Funding for Entrepreneurs	2 3 3 3		0	3 3 3
	MARKETIN						
	ETR		Entrepreneur Marketing	3		0	3
	MKT	220	Advertising & Sales Promotion	3 3 3		0	3
	MKT	223	Customer Service	3		0	3 3 3
	WEB	140	Web Development Tools	2		2	3
	ENTREPRE	NEUF	RSHIP TRACK				
	BUS	139	Entrepreneurship I	3		0	3
	BUS	230	Small Business Management	3 3 3		0	3 3 3
	ETR		Innovation and Creativity	3		0	3
	BUS	280	NC REAL	4		0	4
	OR						
	WEB		Web Design	2		2	3
	TECHNOLO						
	CTS		Presentation Graphics	2		2	3
	DBA		Database Concepts	2 2 2		2 3 2	3 3 3
	WEB		Web Development Tools	2		2	3
	WEB	210	Web Design	2		2	4

			Class Hours	Lab Hours	Credit Hours
	ACC MK' BUS SPA	BUSINESS TRACK 129 Individual Income Tax 120 Advertising and Sales 120 Small Business Management 120 Spanish for the Workplace 121 Spanish for the Workplace 122 ST 131 may be chosen if student lacks typing skills	2 3 3 3	2 0 0 0	3 3 3
IV.	Other Requ ACA 115	ired Hours - 1 Credit Hour Success and Study Skills	0	2	1
Total	Required Hou	's			72-74
		Business Administration - Diploma (D 25 12 0)			
			Class Hours	Lab Hours	Credit Hours
I.		ecation - 9 Credit Hours	1000000		
	ECO 252	Prin of Macroeconomics	3	0	3
	ENG 111 MAT 115	Expository Writing Mathematical Models	3 2	2	3
11.	Beautred Co	ore Courses - 13 Credit Hours			
11.	ACC 120	Prin of Financial Acet	3	2	4
	BUS 115	Business Law I	3	0	3
	BUS 137	Principles of Management	3 3 3	0	3 3 3
	MKT 120	Principles of Marketing	3	0	3
III.		r Required Courses - 22/23 Credit Hours	0	0	55
		n of Managerial Acct	3	2	4
		roduction to Business	3	2	3
	BUS 121 Bu		3 2 2 2 2	2	3 3 3 3 1
		siness Finance	2	2	3
		oduction to Computers	2	2	3
	CTS 130 Spr COE 110 Wo		ĩ	2	3
	Elective (Ch			U	
	BUS	153 Human Resource Management	3	0	3
		253 Leadership and Mgt. Skills	3 3 3	0	3
		260 Business Communication	3	0	3 3 3
		251 Prin of Microeconomics	3	0	3
***	0.4	- 1 W 1 C - 1 W W			
IV.	ACA 115	ired Hours - 1 Credit Hour Success & Study Skills	0	2	1
Total	Required Hou				45/46
		Business Administration – Certificate (C 25 12 0)		20030	82.6002.0
	12000000		Class Hours	Lab Hours	Credit Hours
	CIS 110	Introduction to Computers	2	2	3
	ACA 115	Success and Study Skills	0	2	1
		Choose four of the following courses:	2		90
		ACC 120 Principles of Financial Accounting	3 3 3 3	0	3
		BUS 110 Introduction to Business BUS 137 Principles of Management	3	0	3
		BUS 153 Human Resource Management	3	0	3
		MKT 120 Principles of Marketing	3	ŏ	4 3 3 3 3
Wester's	December of The		Ø.	15	15/16
Iotal	Required Hou	TS .			15/16

Business Administration - Bookkeeping Certificate (C 25 12 0 01)

ACC 120	Principles of Financial Acct	Class Hours	Lab Hours	Credit Hours
		3	2	7
ACC 121	Principles of Managerial Acct	3	de .	*
ACC 180	Practices in Bookkeeping	3	0	3
CIS 110	Introduction to Computers	2	2	3
ACA 115	Success & Study Skills	0	2	1
Total Required Hours				15

Business Administration - Degree (A 25 12 A) Banking and Finance Concentration

Curriculum Description

Banking and Finance is a concentration under the curriculum title of Business Administration. This curriculum is designed to prepare individuals for a career with various financial institutions and other businesses.

Course work includes principles of banking, money and banking, lending fundamentals, banking and business law, and practices in the areas of marketing, management, accounting, and economics.

Graduates should qualify for a variety of entry-level jobs in banking and finance. Also available are employment opportunities with insurance, brokerage and mortgage companies, and governmental lending agencies.

			Class	Lab	Credit
			Hours	Hours	Hours
I.	General Edu	cation Requirements - 15 Credit Hours		Management .	
	ECO 252	Prin of Macroeconomics	3	0	3
	ENG 111	Expository Writing	3	0	
		Humanities elective	3	0	3
	COM 231	Public Speaking	3	0	3 3 3
	MAT 115	Mathematical Models	2	2	3
II.	Required Co	re Courses - 19 Credit Hours			
	ACC 120	Prin of Financial Acet	3	2	4
	CIS 110	Introduction to Computers	3 2 3	2	4 3 3 3 3
	BUS 115	Business Law I	3	0	3
	BUS 137	Principles of Management	3	0	3
	ECO 251	Prin of Microeconomics	3	0	3
	MKT 120	Principles of Marketing	3	0	3
III.	Required Co	ncentration Courses - 12 Credit Hours			
	BAF 110	Principles of Banking	3	0	3
	BAF 131	Fund. Of Bank Lending	3 3 3 3	0	3 3 3
	BAF 141	Law and Banking: Principles	3	0	3
	BAF 222	Money and Banking	3	0	3
IV.	Other Major	Required Courses - 25/26 Credit Hours			
	ACC 121	Prin of Managerial Acet	3	2	4
	ACC 129	Individual Income Taxes	2 2	2	3
	CTS 130	Spreadsheet	2	2 2 2	4 3 3 1
	COE 110	World of Work	1	0	1
	BUS 110	Introduction to Business	3	0	3
	BUS 121	Business Math	2 2	2 2	3
	BUS 225	Business Finance		2	3 3 3
	BUS 260	Business Communication	3	0	3

		Elective (Cho	ora One)	Class Hours	Lab Hours	Credit Hours
		ACC 180	Practices in Bookkeeping	3	0	3
		CIS 165	Desktop Publishing I	2	2	3
		CTS 125	Presentation Graphics	2	2	3
		OST 131	Keyboarding	1	2	2
		OST 136	Word Processing	2	2	3
v.	Other Requir	red Hours - 1 Cre	dit Hour			
	ACA 115	Success & Str		o	2	1
Total	Required Hours	10				72/73

Business Administration - Degree (A 25 12 F) Marketing and Retailing Concentration

Curriculum Description

Marketing and Retailing is a concentration under the curriculum title of Business Administration. This curriculum is designed to provide students with fundamental skills in marketing and retailing.

Course work includes marketing, retailing, merchandising, selling, advertising, computer technology, and management.

Graduates should qualify for marketing positions within manufacturing, retailing, and service organizations.

	75 9225		Class Hours	Lab Hours	Credit Hours
I.		ation Requirements - 15 Credit Hours		12	2
	ECO 252	Prin of Macroeconomics	3 3 3 3 2	0	3 3 3 3
	ENG 111	Expository Writing	3	0	3
		Humanities elective	3	0	3
	COM 231	Public Speaking	3	0	3
	MAT 115	Mathematical Models	2	2	3
11.	Required Cor	re Courses - 16 Credit Hours			
	ACC 120	Prin of Financial Acct	3	2	4
	BUS 115	Business Law I	3	2 0 0 2 0	3
	BUS 137	Principles of Management	3	0	3
	CIS 110	Introduction to Computers	2	2	3
	ECO 251	Prin of Microeconomics	3	0	3
	MKT 120	Principles of Marketing	3 3 2 2 3 3	0	4 3 3 3 3 3
ш.	Required Cor	ncentration Courses - 15 Hours			
	+MKT 122	Visual Merchandising	3	0	3
	+MKT 123	Fundamentals of Selling	3	0 0 0 0	3 3 3 3
	MKT 220	Advertising & Sales Promotion	3	0	3
	+MKT 225	Marketing Research	3	0	3
	+MKT 226	Retail Applications	3 3 3 3 3	0	3
IV.	Other Major	Required Courses - 28/29 Credit Hours			
	ACC 121	Prin of Managerial Acct	3	2	4
	BUS 110	Introduction to Business	3	0	3
	BUS 121	Business Math	2	2	3
	BUS 253	Leadership and Mgt. Skills	3 3 2 3 3 2	0	3
	BUS 260	Business Communication	3	0	3
	CTS 130	Spreadsheet	2	2	3
	COE 110	World of Work	ī	2 0 2 0 0 2 0	4 3 3 3 3 1
	+MKT 125	Buying and Merchandising	3	0	3

				Class Hours	Lab Hours	Credit Hours
	Elective (Cho			granan.		
		ACC 180	Practices in Bookkeeping	3	0	3
		CTS 125	Presentation Graphics	2	2	3
		OST 131	Keyboarding	1	2	2
		OST 136	Word Processing	2	2	3
V.	Other Requi	red Hours - 1 Cre	edit Hour			
	ACA 115	Success & St	udy Skills	0	2	1
Tota	Required Hour	'8				75/76

+ = Conducted at Cleveland Community College

Computer Engineering Technology - Degree (A 40 16 0)

Curriculum Description

The Computer Engineering Technology curriculum provides the skills required to install, service, and maintain computers, peripherals, networks, and microprocessor and computer controlled equipment. It includes training in both hardware and software, emphasizing operating systems concepts to provide a unified view of computer systems.

Coursework includes mathematics, electronics, digital circuits, and programming, with emphasis on the operation, use, and interfacing of memory and devices to the CPU. Additional topics may include communications, networks, operating systems, programming languages, Internet configuration and design, and industrial applications.

Graduates should qualify for employment opportunities in electronics technology, computer service, computer networks, server maintenance, programming, and other areas requiring a knowledge of electronic and computer systems. Graduates may also qualify for certification in electronics, computers, or networks.

	C		Class Hours	Lab Hours	Credit Hours
I.		ntion Requirements - 15 Credit Hours			
	ENG 111	Expository Writing	3	0	3
	ENG 114	Prof Research & Reporting OR	3	0	3
	ENG 113	Literature-Based Research			
	MAT 161	College Algebra	3	0	3
		Humanities Elective	3 3 3	0	3 3
		Social Science Elective	3	0	3
11.	Required Co	ore Courses - 7 Credit Hours			
	CET 111	Computer Upgrade/Repair I	2	3	3
	ELN 133	Digital Electronics	2 3	3	3 4
ш.	Required Su	bject Courses - 12 Credit Hours			
	ELC 131	DC/AC Circuit Analysis	4	3	5
	ELN 131	Semiconductor Applications	3 2	3 3	5 4 3
	CSC 134	C++ Programming	2	3	3
		OR			
	CSC 139	Visual BASIC Programming			
		OR			
	CET 161	Procedural Programming			
IV.	Other Major	Required Courses - 40 Credit Hours			
	CET 172	Internet Technologies	2	3	3
	CET 211	Computer Upgrade/Repair II	2	3	3
	CIS 110	Intro to Computers	2 3	2	3
	ELC 112	DC/AC Electricity	3	6	5
	ELC 127	Software for Technicians	1	2 6 3	3 3 5 2 3
	ELC 128	Intro to PLC	2	3	3
	ELN 152	Fabrication Techniques	1	3	2

	ELN 232	Interduction to Missource	Class Hours	Lab Hours	Hours
		Introduction to Microprocessors	3	3	
	ELN 249	Digital Communications	2	3	3
	MAT 162	College Trigonometry	3	0	3
	PHY 131	Physics-Mechanics	3	2	4
	PHY 132	Physics-Elect & Magnetism	3	2	4
V.	Other Requi	red Hours - 1 Credit Hour			
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	s			74

Computer Engineering Technology - Diploma (D 40 16 0)

			Class Hours	Lab Hours	Credit Hours
I.	General Ed	ucation Requirements - 6 Credit Hours			
	ENG 101	Applied Communications I OR	3	0	3
	ENG 111	Expository Writing (3-0-3)			
	MAT 101	Applied Mathematics I OR	2	2	3
	MAT 115	Mathematical Models (2-2-3)			
п.	Required M	lajor Courses - 7 Credit Hours			
	CET 111	Computer Upgrade/Repair I	2 3	3	3
	ELN 133	Digital Electronics	3	3	4
ш.	Required St	ubject Courses - 4 Credit Hours			
	ELN 131	Semiconductor Applications	3	3	4
IV.	Other Majo	r Courses - 25 Credit Hours			
	CET 172	Internet Technologies	2	3	3
	CET 211	Computer Upgrade/Repair II	2 2 2 3	3	3
	CIS 110	Intro to Computers	2	2	3
	ELC 112	DC/AC Electricity	3	6	5
	ELC 127	Software for Technicians	1	3	2
	ELC 128	Intro to PLC	2	3	3
	ELN 152	Fabrication Techniques	1	3 2 6 3 3 3	3 3 5 2 3 2 4
	ELN 232	Introduction to Microprocessors	3	3	4
Tota	l Required Ho	ours			42

Computer Engineering Technology - Certificate (C 40 16 0)

		Class Hours	Lab Hours	Credit Hours
Computer Upgrad	e/Repair - 13 Credit Hours	Lionia	Literatur	Litter
CET 111	Computer Upgrade/Repair I	2	3	3
CET 211	Computer Upgrade/Repair II	2	3	3
ELC 112	DC/AC Electricity	3	6	5
ELN 152	Fabrication Techniques	1	3	2

Computer Programming - Degree (A 25 13 0)

Curriculum Description

The Computer Programming curriculum prepares individuals for employment as computer programmers and related positions through study and applications in computer concepts, logic, programming procedures, languages, generators, operating systems, networking, data management, and business operations.

Students will solve business computer problems through programming techniques and procedures, using appropriate languages and software. The primary emphasis of the curriculum is hands-on training in programming and related computer areas that provide the ability to adapt as systems evolve.

Graduates should qualify for employment in business, industry, and government organizations as programmers, programmer trainees, programmer/analysts, computer operators, systems technicians, or database specialists.

				Class Hours	Lab Hours	Credit Hours
I.	General Edu	ation Requirements - 15 (Credit Hours	K.K.SCHICAE	KANAMA	KASISHOR
	ECO 252	Prin of Macroeconomics		3	0	3
	ENG 111	Expository Writing		3 3 3	0	
		Humanities Elective		3	0	3
	COM 231	Public Speaking		3	0	3
	MAT 115	Mathematical Models		2	2	3
		OR				
	MAT 161	College Algebra		3	0	3
II.	Required Co	re Courses - 42 Credit Hou	rs			
	CIS 110	Introduction to Compute	ers	2	2	3
	CIS 115	Intro to Prog and Logic		2 2 2	2 3	3
	CSC 134	C++ Programming		2	3	3
	CSC 234	Advanced C++ Program		2 3	3	3
	CTS 115	Info. Systems Business		3	0	3
	CTS 285	Systems Analysis and D	esign	3	0	3
	CSC 289	Programming Capstone	Project	1	4	3
	DBA 110	Database Concepts		2	3	3
	NET 125	Networking Basics		1	4	3
	NOS 110	Operating System Conc	epts	2	3	3
	SEC 110	Security Concepts		3	0 2 3	3 3 3
	NOS 120	Linux/UNIX Single Use		2	2	3
	CSC 139	Visual Basic Programm		3 2 2 2	3	3
	CSC 239	Advanced Visual Basic	Programming	2	3	3
III.	Other Major	Required Hours - 16 Cred	it Hours			
	COE 110	World of Work		1	0	1
	WEB 182	PHP Programming		2 2 2	2 2 2	3 3
	WEB 250	Database Driven Websit		2	2	3
	WEB 115	Web Markup and Script	ing	2	2	3
	Computer Ele		f 6 Credit Hours from the following:			
			vare/ Software Support			
			ntation Graphics			
			dsheet			
			Support Functions			
		NET 126 Routin	ng Basics			
			ows Single User			
			e Communication			
		SEC 160 Secur	e Admin I			
IV.		red Hour - 1 Credit Hour		90	2	0
	ACA 115	Success & Study Skills		0	2	1
Total	Required Hours					74

Computer Information Technology - Degree (A 25 26 0)

Curriculum Description

Total Required Hours

The Computer Information Technology curriculum is designed to prepare graduates for employment with organizations that use computers to process, manage, and communicate information. This is a flexible curriculum that can be customized to meet community information systems needs.

Course work will develop a student's ability to communicate complex technical issues related to computer hardware, software, and networks in a manner that computer users can understand. Classes cover computer operations and terminology, operating systems, database, networking, security, and technical support.

Graduates should qualify for employment in entry-level positions with businesses, educational systems, and governmental agencies which rely on computer systems to manage information. Graduates should be prepared to sit for industry-recognized certification exams.

				Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requireme	nts - 15 Credit Hours	Homs	LIUMES	Liouts
**	ECO 252	Prin of Macro		3	0	3
	ENG 111	Expository Wi		3 3 3 3 2	0	
	ENG III	Humanities El		3	ő	3 3
	COM 231	Public Speakir		3	0	2
	MAT 115	Mathematical		2	2	3
	MAI 115	OR.	Wiodels		fire .	3
	MAT 161	College Algeb	ra			
п.	Required Co	re Courses - 36 C	redit Hours			
10075.0	CIS 110	Introduction to		2	2	3
	CIS 115	Intro to Prog &		2 2	3	3
	CTS 115		Business Concepts	3		3
	CTS 120	Hardware/Sof		3 2	0	3
	CTS 285	Systems Analy		3	0	3
	CTS 289	System Suppo		1	4	3
	DBA 110	Database Con-		2	3	3 3 3 3 3
	NOS 110	Operating Sys		2	3	3
	NOS 130	Windows Sing		2	2	3
	NOS 230	Windows Adn		2 2 2 1	3 2 2	3 3 3
	NET 125	Networking B		1	4	3
	SEC 110	Security Conc		3	0	3
ш.	Other Major	Required Course	s - 22 Credit Hours			
	CTS 130	Spreadsheet		2	2	3
	CTS 155	Tech Support	Functions	2 2 2	2 2 2 2	3 3 3 1 3 3 3
	CIS 165	Desktop Publi	shing I	2	2	3
	CTS 125	Presentation C		2	2	3
	COE 110	World of Worl	(1	0	1
	OST 136	Word Process	ing	2	2	3
	WEB 210	Web Design		2	2	3
		Elective				3
		Choose one of	the following courses:			
		NET 126	Routing Basics			
		CSC 134	C++ Programming			
		CSC 139	Visual Basic Programming			
		WEB 110	Internet/Web Fundamentals			
		WEB 115	Web Markup and Script			
		SEC 150	Secure Communications			
		SEC 160	Secure Administration I			
		NOS 120	Linex/Unix Single User			
IV.		red Hours - 1 Cre			03	8
	ACA 115	Success & Stu	dy Skills	0	2	1

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Computer Information Technology - Certificate (C 25 26 0)

	CIS 110	Introduction to Computers	Class Hours	Lab Hours	Credit Hours
	NOS 110	1 3 3 3 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	2	2	2
		Operating System Concepts		3	3
	NET 125	Networking Basics	1	4	3
	DBA 110	Database Concepts	2	3	3
	CTS 130	Spreadsheet	2	2	3
	Choose one c	ourse below:			
	CTS 125	Presentation Graphics	2	2	3
	SEC 110	Security Concepts	3	0	3
Total Requ	ired Hours				18

Cosmetology - Degree (A 55 14 0)

Curriculum Description

The Cosmetology curriculum is designed to provide competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the cosmetology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional imaging, hair design, chemical processes, skin care, nail care, multicultural practices, business/computer principles, product knowledge, and other selected topics.

Graduates should qualify to sit for the State Board of Cosmetic Arts examination. Upon successfully passing the State Board exam, graduates will be issued a license. Employment is available in beauty salons and related businesses.

4		VOCAL CONTACTOR CONTACTOR	A SA CONTRACTOR LINES FOR LINES FOR STATE OF STA	Class Hours	Lab <u>Hours</u>	Co-Op Hours	Credit Hours
I.	General Education Requirements - 15 Credit Hours		2				
	ENG 111	Expository W		3	0	0	3
	ENG 113	Literature - Ba	sed Research	3	0	0	3
		OR					
	ENG 114		tesearch & Reporting	12			2
	MAT 115	Mathematical		2 3 3	2	0	3 3
		Humanities El	ective	3		0	3
		Social Science	Elective	3	0	0	3
II.	Required Core Courses - 34 Credit Hours						
	COS 111	Cosmetology		4	0	0	4
	COS 112	Salon I		0	24		
	COS 113	Cosmetology	Concepts II	4	0	0	4
	COS 114	Salon II		0	24	0	8
	COS 115	Cosmetology	Concepts III	4	0	0	4
	COS 116	Salon III			12	Ö	4
	COS 117	Cosmetology	Concepts IV	0 2	0	0 0 0 0 0	8 4 8 4 4 2
m.	Other Major	Required Course	es - 24 Credit Hours				
	CIS 110	Introduction to		2	2	0	3
	COS 118	Salon IV		0	21		3 7 2 2 3
	COS 223	Contemp Hair Coloring		ĭ	21 3 3	0	2
	COS 225	Adv Contemp Hair Coloring		î	3	o .	2
	CON MAN		ated Elective (choose one):		77	**	3
		CTS 130	Spreadsheet				77
		DBA 110	Database Concepts				
		WEB 110	Internet/Web Fundamentals				
		WED III	internet/ web r undamentals				

			Class Hours	Lab Hours	Co-Op Hours	Credit Hours
	Options: Selec	ct 7 credit hours from the following courses:				
	BUS 115	Business Law I	3	0	0	3
	BUS 137	Principles of Management	3	0	0	3
	BUS 230	Small Business Management	3	0	0	3
	BUS 253	Leadership & Mgt Skills	3	0	0	3
	COE 111**	Co-Op Work Experience I	0	0	10	1
	COE 115**	Work Experience Seminar I	1	0	0	1
	COS 119	Esthetics Concepts I	2	0	0	2
	COS 224	Trichology and Chemistry	1	3	0	2
	COS 240	Contemporary Design	1	3	0	2 6
	COS 121	Manicure/Nail Technology I	4	6	0	6
	COS 222	Manicure/Nail Technology II	4	6	0	6
IV.	Other Requir					
	ACA 115	Success & Study Skills	0	2	0	1
Total	Required Hours					74

^{**}NOTE: A cosmetology student who has completed 1200 hours of cosmetology coursework, taken and passed the Cosmetology Apprenticeship Exam, and received their license may return to work an additional 300 hours through a co-op work experience. Any student who does participate, the hours will be documented and the Registrar will be notified to assure these guidelines are met.

Cosmetology - Diploma (D 55 14 0)

			Class	Lab	Co-Op	Credit
			Hours	Hours	Hours	Hours
I.	General Edu	cation Requirements - 6 Credit Hours				
	ENG 101	Applied Communications I	3 2	0	0	3
	MAT 101	Applied Mathematics I	2	2	0	3
п.	Required Co	ore Courses - 34 Credit Hours				
	COS 111	Cosmetology Concepts I	4	0	0	4
	COS 112	Salon I	0	24	0	8
	COS 113	Cosmetology Concepts II	4	0	0	4
	COS 114	Salon II	0	24	0	4 8
	COS 115	Cosmetology Concepts III	4	0	0	4
	COS 116	Salon III	0	12	0	4
	COS 117	Cosmetology Concepts IV	0 2	0	0	2
ш.	Other Major	Required Courses - 7 Credit Hours				
	CIS 110	Introduction to Computers	2	2	0	3
	COS 223	Contemp Hair Coloring	1	2	0	2
	COS 225	Adv Contemp Hair Coloring	1	3	0	3 2 2
Total	Required Hour	s				47

Manicuring/Nail Technology - Certificate (C 55 40 0)

Curriculum Description:

The Manicuring/Nail Technology curriculum provides competency-based knowledge, scientific/artistic principles, and hands-on fundamentals associated with the nail technology industry. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional nail technology, business/computer principles, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and nail salons, as a platform artist, and in related businesses.

			Class Hours	Lab Hours	Co-Op Hours	Credit Hours
	Manicure					BURUS CHESTON
	COS 121	Manicure/Nail Technology I	4	6	0	6
	COS 222	Manicure/Nail Technology II	4	6	0	6
Fot	al Required Hours					12

Esthetics Technology - Certificate (C 55 23 0)

Curriculum Description

The Esthetics Technology curriculum provides competency-based knowledge, scientific/artistic principles and hands-on fundamentals associated with the art of skin care. The curriculum provides a simulated salon environment which enables students to develop manipulative skills.

Course work includes instruction in all phases of professional Esthetics Technology, business/human relations, product knowledge, and other related topics.

Graduates should be prepared to take the North Carolina Cosmetology State Board Licensing Exam and upon passing be licensed and qualify for employment in beauty and cosmetic/skin care salons, as a platform artist, and in related businesses.

I.	General Edu None	cation Requirements	Class Hours	Lab Hours	Credit Hours
п.	Major Cour	ses			
	Core Require	d Courses			
	COS 119	Esthetics Concepts I	2	0	2
	COS 120	Esthetics Salon I	0	18	6
	COS 125	Esthetics Concepts II	2	0	2
	COS 126	Esthetics Salon II	0	18	6
Total	Required Hour	s			16

Cosmetology Instructor - Certificate (C 55 16 0)

Curriculum Description

The Cosmetology Instructor curriculum provides a course of study for learning the skills needed to teach the theory and practice of cosmetology as required by the North Carolina Board of Cosmetic Arts.

Course work includes requirements for becoming an instructor, introduction to teaching theory, methods and aids, practice teaching, and development of evaluation instruments.

Graduates of the program may be employed as cosmetology instructors in public or private education and business.

I.		ucation Requirements	Class Hours	Lab <u>Hours</u>	Credit Hours
II.	Major Cour				
	Required Co	re Courses			
	COS 271	Instructor Concepts I	5.	0	5
	COS 272	Instructor Practicum I	0	21	7
	COS 273	Instructor Concepts II	5	0	5
	COS 274	Instructor Practicum II	0	21	7
Tota	al Required Ho	ours			24

Manicuring Instructor - Certificate (C 55 38 0)

Curriculum Description

The Manicuring Instructor curriculum provides a course of study covering the skills needed to teach the theory and practices of manicuring as required by the North Carolina State Board of Cosmetology.

Course work includes all phases of manicuring theory laboratory instruction.

Graduates should be prepared to take the North Carolina Cosmetology State Board Manicuring Instructor Licensing Exam and upon passing be qualified for employment in a cosmetology or manicuring school.

			Class Hours	Lab Hours	Credit Hours
I.	General Ed	ucation Requirements	000000000000000000000000000000000000000		
	None	Property Control of Co			
II.	Major Cour	ses			
	Required Co	re Courses			
	COS 251	Manicure Instructor Concepts	8	0	8
	COS 252	Manicure Instructor Practicum	0	15	5
Tota	l Required Ho	purs			13

Esthetics Instructor - Certificate (C 55 27 0)

Curriculum Description

The Esthetics Instructor curriculum provides a course of study covering the skills needed to teach the theory and practices of esthetics as required by the North Carolina State Board of Cosmetology.

Course work includes all phases of esthetics theory laboratory instruction.

Graduates should be prepared to take the North Carolina Cosmetology State Board Esthetics Instructor Licensing Exam and upon passing be qualified for employment in a cosmetology or esthetics school.

I.	General Ed	ucation Requirements	Class Hours	Lab Hours	Credit Hours
II.	Major Cour	rses			
	Required Co	re Courses			
	COS 253	Esthetics Instructor Concepts I	6	15	11
	COS 254	Esthetics Instructor Concepts II	6	15	11
Tota	d Required Ho	ours			22

Criminal Justice Technology - Degree (A 55 18 0)

Curriculum Description

The Criminal Justice Technology curriculum is designed to provide knowledge of criminal justice systems and operations. Study will focus on local, state, and federal law enforcement, judicial processes, corrections, and security services. The criminal justice system's role within society will be explored.

Emphasis is on criminal justice systems, criminology, juvenile justice, criminal and constitutional law, investigative principles, ethics, and community relations. Additional study may include issues and concepts of government, counseling, communications, computers, and technology.

Employment opportunities exist in a variety of local, state, and federal law enforcement, corrections, and security fields. Examples include police officer, deputy sheriff, county detention officer, state trooper, intensive probation/parole surveillance officer, correctional officer, and loss prevention specialist.

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	ication Requirements - 24 Credit Hours			N60 00 80
	ENG 111	Expository Writing	3	0	3
	ENG 113	Literature-Based Research	3 3	0	3
		OR			
	ENG 114	Professional Research and Reporting			
	MAT 115	Mathematical Models	2	2	3
		OR			
	MAT 161	College Algebra			
	PSY 150	General Psychology	3	0	3
	SOC 210	Introduction to Sociology	3	0	3 3 3 3
	SOC 220	Social Problems	3	0	3
	POL 120	American Government	3	0	3
		Humanities Elective	3	0	3
п.	Required	Core Courses - 22 Credit Hours			
	CJC 111	Introduction to Criminal Justice	3	0	3
	CJC 112	Criminology	3	0	3
	CJC 113	Juvenile Justice	3	0	3
	CJC 131	Criminal Law	3	0	3

			Class Hours	Lab Hours	Credit Hours
	CJC 212	Ethics and Community Relations	3	0	3
	CJC 221	Investigative Principles	3	2	4
	CJC 231	Constitutional Law	3	0	3
ш.	Other Majo	r Required Courses - 29 Credit Hours			
	CIS 110	Introduction to Computers	2	2	3
	CJC 120	Interviews-Interrogations	1	2 2	2
	CJC 121	Law Enforcement Operations	3	0	3 2 3
	CJC 122	Community Policing	3	0	3
	CJC 132	Court Procedure and Evidence	3	0	3
	CJC 141	Corrections	3	0	3
	CJC 215	Organization and Administration	3	0	3
	CJC 223	Organized Crime	3	0	3
	CJC 225	Crisis Intervention	3	0	3
	CJC	Electives:			3
		CJC 232 Civil Liability			
		CJC 214 Victimology			
		CJC 222 Criminalistics			
IV.	Other Requ	ired Hours - 1 Credit Hour			
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hou	TS.			76

Criminal Justice Technology - Diploma (D 55 18 0)

			Class Hours	Lab Hours	Credit Hours
I.		ucation Requirements - 9 Credit Hours	w		98
	ENG 111	Expository Writing	3 3 3	0	3 3
	PSY 150	General Psychology	3	0	3
	SOC 210	Introduction to Sociology	3	0	3
II.	Required C	ore Courses - 12 Credit Hours			
	CJC 111	Introduction to Criminal Justice	3	0	3
	CJC 112	Criminology	3	0	3
	CJC 131	Criminal Law	3 3 3	0	3 3 3
	CJC 231	Constitutional Law	3	0	3
III.	Other Majo	or Required Courses - 24 Credit Hours			
	CIS 110	Introduction to Computers	2	2	3
	CJC 113	Juvenile Justice	2 3 3	0	3 3 3 3 3 3
	CJC 121	Law Enforcement Operations	3	0	3
	CJC 132	Court Procedure and Evidence	3	0	3
	CJC 141	Corrections	3	0	3
	CJC 212	Ethics and Community Relations	3 3 3	0	3
	CJC 215	Organization and Administration	3	0	3
	CJC	Elective			3
		CJC 232 Civil Liability			
		CJC 214 Victimology			
		CJC 222 Criminalistics			
IV.	Other Requ	tired Hours - 1 Credit Hour			
1555	ACA 115	Success & Study Skills	0	2	1
Tota	l Required He	OHER.			46

Criminal Justice Technology - Certificate (C 55 18 0)

1000000			Class Hours	Lab Hours	Credit Hours
CJC 111	Introduction	to Criminal Justice	3	0	3
CJC 113	Juvenile Justi	ice	3	0	3
CJC 121	Law Enforces	ment Operations	3	0	3
CJC 141	Corrections	B. 1884 W. 188	3	0	3
CJC 212	Ethics and Co	ommunity Relations	3	0	3
CJC	Electives:				3
	CJC 232	Civil Liability			
	CJC 214	Victimology			
	CJC 222	Criminalistics			
Required Hours					18

Early Childhood Education - Degree (A 55 22 0)

Curriculum Description

Total

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.

				2	
			Class	Lab	Credit
			Hours	Hours	Hours
I.		cation Requirements - 15 Credit Hours			
	ENG 111	Expository Writing	3	0	3
	ENG 114	Professional Research and Reporting	3	0	3
		OR			
	ENG 113	Literature-Based Research			
		OR			
	ENG 112	Argument-Based Research			
	MAT 115	Mathematical Models	2	2	3
	071T0.7T0 V0.0TV	Humanities Elective	3	2	3
		Social Science Elective	2 3 3	0	3 3
		5.00000 0.00000 0.000000000000000000000	_	**	
II.	Required Co				
	EDU 119	Intro to Early Child Education	4	0	4
	EDU 131	Child, Family, and Community	3		3
	EDU 146	Child Guidance	3	0	3
	EDU 151	Creative Activities	3	0	3
	EDU 153	Health, Safety and Nutrition	3	0	3
	EDU 221	Children with Exceptional	3	0	3
	EDU 271	Educational Technology	2	2	3
	EDU 280	Language & Literacy Experiences	4 3 3 3 3 3 2 3	0 0 0 0 0 2 0	3
	EDU 284	Early Child Capstone Prac	1	9	4 3 3 3 3 3 3 4
III.	Required Su	bject Courses - 6 Credit Hours			
	EDU 144	Child Development I	3	0	3
	EDU 145	Child Development II	3	0	3
		\$160 (\$10 \$40 \$40 \$40 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$10 \$1)			

			Class Hours	Lab Hours	Credit Hours
IV.	Other Major	Required Courses - 12 Credit Hours			
	CIS 110	Introduction to Computers	2	2	3
	EDU 184	Early Child Intro Pract	2	2 3	2
	EDU 214	Early Child Interm Pract	1	9	4
	EDU 259	Curriculum Planning	3	0	2 4 3
	Choose one o	f the following Tracks			
	Track A (Ear	ly Childhood - 13 Credit Hours)			
	EDU 185	Cognitive and Language Activity	3 3 3	0	3
	EDU 234	Infants, Toddlers, and Twos	3	0	3
	EDU 252	Math and Science Activities	3	0	3
	EDU 254	Music and Movement for Children	1	2	3 3 2 2
	HEA 112	First Aid and CPR	1	2	2
	Track B (Adı	ninistration - 12 Credit Hours)			
	EDU 261	Early Childhood Administration I	3	0	3
	EDU 262	Early Childhood Administration II	3 3 3	0	3 3 3
	BUS 153	Human Resources Management	3	0	3
	BUS 230	Small Business Management	3	0	3
	Track C (Spe	cial Education - 12 Credit Hours)			
	EDU 154	Social/Emotional/Behav Dev	3	0	3
	EDU 223	Specific Learning Disab	3 3 3 3	0	3
	EDU 247	Sensory and Physical Disab	3	0	3
	EDU 248	Developmental Delays	3	0	3 3 3 3
	Track D (Col	lege Transfer - 13 Credit Hours)			
	HUM 211	Humanities I	3 3	0	3
	SOC 210	Introduction to Sociology	3	0	3
	PED 110	Fit and Well for Life	1	0 2 2	3 2 1 3
	PED 152	Swimming - Beginning	0	2	1
	AST 151	General Astronomy	3	0	3
	AST 151A	General Astronomy Lab	0	2	1
v.	Other Requir	red Hours - 1 Credit Hour			
820	ACA 115	Success & Study Skills	0	2	0
Total	Required Hours	r			75/76

Early Childhood Education - Diploma (D 55 22 0)

			Class Hours	Lab Hours	Credit Hours
			Hours	Hours	Homs
L		cation Requirements - 6 Credit Hours		0000	0.20
	ENG 111	Expository Writing	3	0	3
	MAT 115	Mathematical Models	3 2	2	3
п.	Required Co	re Courses - 19 Credit Hours			
	EDU 119	Intro to Early Child Education	4	0	4
	EDU 131	Child, Family, and Community	4 3	0	3
	EDU 146	Child Guidance	3	0	3
	EDU 151	Creative Activities	3	0	3
	EDU 153	Health, Safety and Nutrition	3	0	3
	EDU 221	Children with Exceptional	3	0	3
III.	Required Su	bject Courses - 6 Credit Hours			
	EDÚ 144	Child Development I	3	0	3
	EDU 145	Child Development II	3	0	3

			Class	Lab	Credit
			Hours	Hours	Hours
IV.	Other Major	Required Courses - 16 Credit Hours			
	CIS 110	Introduction to Computers	2	2	3
	EDU 184	Early Child Intro Pract	1	3	2
	EDU 259	Curriculum Planning	3	0	3
	EDU 261	Early Childhood Administration I	3	0	3
	EDU 262	Early Childhood Administration II	3	0	3
	HEA 112	First Aid and CPR	1	2	2
Total	Required Hour	s			47

Early Childhood Education - Certificate (C 55 22 0)

			Class	Lab	Credit
			Hours	Hours	Hours
	EDU 119	Intro to Early Child Education	4	0	4
	EDU 184	Early Child Intro Pract	1	3	2
	EDU 259	Curriculum Planning	3	0	3
	EDU 261	Early Childhood Administration I	3	0	3
	EDU 262	Early Childhood Administration II	3	0	3
	HEA 112	First Aid and CPR	1	2	2
Total	Required Hour	s			17

Infant/Toddler Care - Certificate (C 55 29 0)

Curriculum Description

The curriculum prepares individuals to work with children from infancy to three years of age in diverse learning environments. Students will combine learned theories, competency-based knowledge, and practice in actual settings with 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 an implementation of appropriate curriculum; and other related topics.

Graduates should be prepared to plan and implement developmentally appropriate infant/toddler programs in early childhood settings. Employment opportunities include child development and child care programs, preschools, public and private schools, recreational centers, Early Head Start Programs, and other infant/toddler programs.

		Class	Lab	Credit
		Hours	Hours	Hours
EDU 119	Introduction to Early Childhood Education	4	0	4
EDU 131	Child, Family, and Community	3	0	3
EDU 144	Child Development I	3	0	3
EDU 153	Health, Safety and Nutrition	3	0	3
EDU 234	Infant, Toddlers and Twos	3	0	3
Total Required Hours				16

School-Age Education - Degree (A 55 44 0)

Curriculum Description

This curriculum prepares individuals to work with children in elementary through middle grades in diverse learning environments. Students will combine learned theories with practice in actual settings with school-age children under the supervision of qualified teachers.

Course work includes child growth/development; computer technology in education; physical/nutritional needs of school-age children; care and guidance of school-age children; and communication skills with families and children. Students will foster the cognitive/language, physical/motor, social/emotional, and creative development of school-age populations.

Graduates are prepared to plan and implement developmentally appropriate programs in school-aged environments. Employment opportunities include school-age teachers in child care programs, before/after-school programs, paraprofessional positions in public/private schools, recreational centers, and other programs that work with school-age populations.

ENG 111 Expository Writing ENG 114 Professional Research and Reporting OR ENG 113 Literature-Based Research MAT 115 Mathematical Models	3 3 2 3 3	0 0 2 0	3 3		
ENG 111 Expository Writing ENG 114 Professional Research and Reporting OR ENG 113 Literature-Based Research MAT 115 Mathematical Models		2			
ENG 114 Professional Research and Reporting OR ENG 113 Literature-Based Research MAT 115 Mathematical Models		2			
OR ENG 113 Literature-Based Research MAT 115 Mathematical Models		2			
MAT 115 Mathematical Models	2 3 3	2	3		
MAT 115 Mathematical Models	2 3 3	2	3		
	3	0	-		
Humanities Elective	3		3		
Social Science Elective	500	0	3 3		
II. Required Core Courses - 15 Credit Hours					
EDU 131 Child, Family, and Community	3	0	3		
EDU 163 Classroom Mgt. and Instruction	3 2 1 2		3 3 4		
EDU 271 Educational Technology	2	0 2 9	3		
EDU 285 Internship Exp-School Age	1	9	4		
EDU 289 Adv. Issues/School Age	2	0	2		
III. Required Subject Courses - 12 Credit Hours					
EDU 144 Child Development I	3	0	3		
EDU 145 Child Development II	3 3 3	0	3 3 3		
EDU 221 Children with Exceptional	3	0	3		
EDU 118 Princ. and Prac of Inst Asst	3	0	3		
IV. Other Major Required Courses - 29 Credit Hours	Other Major Required Courses - 29 Credit Hours				
CIS 110 Introduction to Computers	2	2	3		
EDU 119 Intro to Early Child Education	2 4 3	2 0 0	3 4 3 2 4 3 3 4		
EDU 146 Child Guidance		0	3		
EDU 151 Creative Activities	3	0	3		
EDU 184 Early Child Intro Pract	1	3 9 0 2	2		
EDU 214 Early Child Interm Pract	1	9	4		
EDU 259 Curriculum Planning	3 2 1	0	3		
EDU 281 Instruc Strat/Read and Writ	2	2	3		
EDU 284 Early Child Capstone Prac	1	9	4		
V. Other Required Hours - 1 Credit Hour					
ACA 115 Success & Study Skills	0	2	1		
Total Required Hours			72		

Electrical/Electronics Technology - Degree (A 35 22 0)

Curriculum Description

Total Required Hours

The Electrical/Electronics Technology curriculum is designed to provide training for persons interested in the installation and maintenance of electrical/electronic systems found in residential, commercial, and industrial facilities.

Course work, most of which is hands-on, will include such topics as AC/DC theory, basic wiring practices, electronics, programmable logic controllers, industrial motor controls, applications of the National Electric Code, and other subjects as local needs require.

Graduates should qualify for a variety of jobs in the electrical/electronics field as an on-the-job trainee or apprentice assisting in the layout, installation, and maintenance of electrical/electronic systems.

				Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requireme	ents - 15 Credit Hours	No.	100000	
	ENG 111	Expository W	riting	3	0	3
	ENG 113	Literature - Bo OR	ased Research	3	0	3
	ENG 114	Professional F	Research and Reporting			
	MAT 115	Mathematical	Models	2	2	3
		Humanities E	lective	3	0	3
		Social Science	e Elective	3	0	3
п.	Required Co	re Courses - 20 C	redit Hours			
	ELC 112	DC/AC Electr	ricity	3	6	5
	ELC 113	Basic Wiring		3 2 2	6	4
	ELC 117	Motors and C		2	6	4
	ELC 128	Introduction to		2	3	3
	ELN 229	Industrial Elec	ctronics	3	3	4
III.	Other Major	Required Course	es - 33 Credit Hours			
****	CIS 110	Introduction to		2	2	3
	ELC 114	Basic Wiring		2 2	6	4
	ELC 115	Industrial Wir		2	6	4
	ELC 118	National Elec		1	2	
	ELC 119	NEC Calculat		1	2	2 2
	ELN 133	Digital Electro	onics	3		4
	ELC 135	Electrical Mad	chines I	3 2	3 2	3
	ELC 228	PLC Applicat	ions	2	6	
	ELC 229	Applications l	Project	1	3	4 2 3 2
	ELN 231	Industrial Cor	ntrols	2	3	3
		Technical Ele	ective: (select a course from the following)			2
		AHR 120	HVACR Maintenance			
		AHR 160	Refrigerant Certification			
		DFT 111	Technical Drafting I			
		DFT 111A	Technical Drafting I Lab			
		DFT 115	Architectural Drafting			
		DFT 151	CADI			
		ELC 127	Software for Technicians			
		ELC 132	Electrical Drawings			
		HYD 110	Hydraulics/Pneumatics I			
IV.		red Hours - 1 Cre			2	G.
	ACA 115	Success & Stu	idy Skills	0	2	1
595 A. S	** * * **					100000

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Electrical/Electronics Technology - Diploma (D 35 22 0)

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	ication Requirements - 6 Credit Hours			
	ENG 101	Applied Communications I	3	0	3
	MAT 101	Applied Mathematics I	3 2	2	3
II.	Required Co				
	ELĈ 112	DC/AC Electricity	3	6	5
	ELC 113	Basic Wiring I	3 2 2	6	4
	ELC 117	Motors and Controls	2	6	4
ш.	Other Major				
	CIS 110	Introduction to Computers	2	2	3
	ELC 114	Basic Wiring II	2 2	6	4
	ELC 115	Industrial Wiring	2	6	4
	ELC 118	National Electrical Code	1	2	
	ELC 119	NEC Calculations	1	2	2 2 3
	ELC 135	Electrical Machines I	2	2	3
	ELN 231	Industrial Controls	2	2 3	3
Total	Required Hour	**			40

Electrical/Electronics Technology - Certificate (C 35 22 0)

		Class	Lab	Credit
		Hours	Hours	Hours
INDUSTRIAL CON	TROLS CERTIFICATE - 15 Credit Hours (C 35 22 0)			
ELC 112	DC/AC Electricity	3	6	5
ELC 117	Motors and Controls	2	6	4
ELC 128	Introduction to PLC	2	3	3
ELN 231	Industrial Controls	2	3	3
ELECTRICAL WI	RING CERTIFICATE - 17 Credit Hours (C 35 22 1)			
ELC 112	DC/AC Electricity	3	6	5
ELC 113	Basic Wiring I	2	6	4
ELC 114	Basic Wiring II	2	6	4
ELC 115	Industrial Wiring	2	6	4

Electronics Engineering Technology - Degree (A 40 20 0)

Curriculum Description

The Electronics Engineering Technology curriculum prepares individuals to become technicians who design, build, install, test, troubleshoot, repair, and modify developmental and production electronic components, equipment, and systems such as industrial/computer controls, manufacturing systems, communication systems, and power electronic systems.

A broad-based core of courses, including basic electricity, solid-state fundamentals, digital concepts, and microprocessors, ensures the student will develop the skills necessary to perform entry-level tasks. Emphasis is placed on developing the student's ability to analyze and troubleshoot electronic systems.

Graduates should qualify for employment as engineering assistants or electronic technicians with job titles such as electronics engineering technician, field service technician, instrumentation technician, maintenance technician, electronic tester, electronic systems integrator, bench technician, and production control technician.

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requirements - 15 Credit Hours		and the same of th	
	ENG 111	Expository Writing	3	0	3
	ENG 114	Professional Research and Reporting	3	0	3
		OR			
	ENG 113	Literature-Based Research			
	MAT 161	College Algebra	3	0	3
		Humanities Elective	3	0	3 3 3
		Social Science Elective	3	0	3
п.	Required Co	ore Courses - 4 Credit Hour			
6000	ELN 133	Digital Electronics	3	3	4
III.	Required Su	bject Courses - 13 Credit Hours			
	ELC 131	DC/AC Circuit Analysis	4	3	5
	ELN 131	Semiconductor Applications	3	3 .	4
	ELN 232	Intro to Microprocessors	3	3 3	4
IV.	Other Major	Required Courses - 21 Credit Hours			
200	CIS 110	Introduction to Computers	2	2	3
	ELC 112	DC/AC Electricity	3	6	3 5 2 3 4
	ELN 152	Fabrication Techniques	ī		2
	MAT 162	College Trigonometry	3	3	3
	PHY 131	Physics Mechanics	3	2	4
	PHY 132	Physics Elec & Magnetism	3	2	4
	Options: Sel	ect at least 20 credit hours from the following courses:			
	CET 111	Computer Upgrade/Repair I	2	3	3
	CET 161	Procedural Programming	2 2 2	3	3 3 3 3 3
	CET 172	Internet Technologies	2	3	3
	CSC 134	C++ Programming	2	3	3
	CSC 139	Visual BASIC Programming	2 2	3	3
	ELC 128	Introduction to PLC	2	3	3
	ELC 228	PLC Applications		6	4
	ELN 132	Linear IC Applications	2 3 2	3	4
	ELN 231	Industrial Controls	2	3	4 3 4
	ELN 233	Microprocessor Systems	3	3	4
	ELN 249	Digital Communications	2	3	3
v.	Other Requi				
(3)27	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	'S			73

Electronics Engineering Technology – Diploma (D 40 20 0)

		Class Hours	Lab Hours	Credi
I. General	Education Requirements - 6 Credit Hours			
ENG 101	Applied Communications I OR	3	0	3
ENG 111	Expository Writing (3-0-3)			
MAT 101	Applied Mathematics I OR	2	2	3
MAT 115	Mathematical Models (2-2-3)			
II. Required	Major Courses - 4 Credit Hours			
ELN 133	Digital Electronics	3	3	4
III. Required	Subject Courses – 9 Credit Hours			
ELĈ 131	DC/AC Circuit Analysis	4	3	5
ELN 131	Semiconductor Applications	3	3	4
IV. Other M	ajor Courses – 20 Credit Hours			
CET 172	Internet Technologies	2	3	3
CIS 110	Intro to Computers	2 2 3 2	3 2 6 3 3	3 5 3 2 4
ELC 112	DC/AC Electricity	3	6	5
ELC 128	Intro to PLC		3	3
ELN 152	Fabrication Techniques	1	3	2
ELN 232	Introduction to Microprocessors	3	3	4
Total Required H	ours			39
	Electronics Engineering Technology - C	Certificate (C 40	20 0)	

		Class Hours	Lab Hours	Credit Hours
ELC 112	DC/AC Electricity	3	6	5
ELC 131	DC/AC Circuit Analysis	4	3	5
ELN 131	Semiconductor Applications	3	3	4
ELN 152	Fabrication Techniques	1	3	2
Total Required Hours				16

Entrepreneurship - Degree (A25490)

Curriculum Description

The Entrepreneurship curriculum is designed to provide students with the knowledge and the skills necessary for employment and growth as self-employed business owners.

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

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

to be	self-employed an	d open their own b	usinesses.	Class	Lab	Credit
				Hours	Hours	Hours
I.	General Edu	cation Requireme	nts - 15 Credit Hours			0.00000
2777	ENG 111	Expository Wi		3	0	3
		Humanities el		3 3 3	0	3
	COM 231	Public Speakir		3	0	3
	MAT 151	Statistics I				
		OR				
	MAT 115	Mathematical	Models	2	2	3
		Social /Behav	or Elective	3	0	3
II.	Required Co	re Courses - 29 C	redit Hours			
	ACC 120	Prin of Financ		3	2	4
	BUS 110	Introduction to		3	0	
	ETR 220	Innovation and	1 Creativity	3	0	3
	ETR 230	Entrepreneur !			0	3
	ETR 240	Funding for E		3	0	3
	BUS 139	Entrepreneurs	hip Î		0	3
	BUS 280	REAL Small I	Business	4	0	3 3 3 3 4 3 3
	CIS 110	Introduction to		2	2	3
	ECO 251	Prin of Microe	economics	3	0	3
ш.			s – 28 Credit Hours	2	228	10
	ACC 121	Prin of Manag		3	2	4
	BUS 115	Business Law		3	0	3 3 3 3 3
	BUS 137	Principles of N		3 3 3 2	0	3
	BUS 230		s Management	3	0	3
	BUS 260	Business Com	munication	3	0	3
	CTS 130	Spreadsheet		2	2 2	3
	WEB 210	Web Design		*	4	3
	Elective (che	oose 6 credit hours) ACC 129	Individual Income Taxes			
		ACC 180	Practices in Bookkeeping			
		BUS 153	Human Resource Management			
		BUS 253	Leadership and Mgt. Skills			
		BUS 255	Organizational Behavior in Business			
		MKT 120	Principles of Marketing			
		MKT 123	Fundamentals of Selling			
		MKT 220	Advertising & Sales Promotion			
		CTS 115	Information Systems Business Concepts			
		CTS 125	Presentation Graphics			
IV.	Company of the Compan	red Hours - 2 Cre				
	ACA 115	Success and S		0	2	į.
	COE 110	World of World		1	0	1
Total	Required Hour	s				74

Entrepreneurship Certificate (C25490)

			Class Hours	Lab Hours	Credit Hours
	ACC 120	Principles of Financial Accounting	3	2	4
	BUS 139	Entrepreneurship I	3	0	3
	BUS 230	Small Business Management	3	0	3
	BUS 253	Leadership and Management Skills	3	0	3
	ETR 220	Innovation and Creativity	3	0	3
otal l	Required Hour				16

General Occupational Technology - Degree (A 55 28 0)

Curriculum Description

The General Occupational Technology curriculum provides individuals with an opportunity to upgrade their skills and to earn an associate degree by taking courses suited for their occupational interests and/or needs.

The curriculum content will be individualized for students according to their occupational interests and needs. A program of study for each student will be selected from associate degree-level courses offered by the College.

Graduates will become more effective workers, better qualified for advancements within their field of employment, and become qualified for a wide range of entry-level employment opportunities.

			Class Hours	Lab Hours	Credit Hours
I.		ation Requirements - 15 Credit Hours			
	ENG 111	Expository Writing	3 3	0	3
	ENG 112	Argument Based Research OR	3	0	3
	ENG 113	Literature-Based Research OR	3	0	3
	ENG 114	Professional Research & reporting	3	0	3
	COM 231	Public Speaking	3	0	3
	MAT 115	Mathematical Models	3 3 2	2	3 3 3
	MAI 115	Humanities Elective	3	ő	3
II.	Required Cor	e Courses - 19 Credit Hours			
	BIO 111	General Biology I	3	3	4
	CIS 110	Introduction to Computers	3 2	3 2	3 3 3 3
	MAT 161	College Algebra	3	0	3
	PSY 150	General Psychology	3 3 3	0	3
	PSY 241	Developmental Psychology	3	0	3
	SOC 210	Introduction to Sociology	3	0	3
III.		Required Courses - Select 37 Credit Hours from the fo	llowing courses		6
	BIO 155	Nutrition	. 3	0	3 5 4
	BIO 163	Basic Anatomy and Physiology	4. 3. 3. 3. 3. 2. 3. 0.	2 3 3 3 3 2 0 3 2 0	5
	BIO 165	Anatomy and Physiology I	3	3	4
	BIO 166	Anatomy and Physiology II	3	3	4
	BIO 168	Anatomy and Physiology I	3	3	4
	BIO 169	Anatomy and Physiology II	3	3	4
	BIO 175	General Microbiology	2	2	3 1 3 2 3
	CHM 131	Introduction to Chemistry	3	0	3
	CHM 131A	Introduction to Chemistry Laboratory	0	3	1
	CTS 130	Spreadsheet	2	2	3
	HEA 110	Personal Health/Wellness	3		3
	HEA 112	First Aid & CPR	1	2	2
	HEA 120	Community Health	3		3
	INS 101	Life/Accident/Health Ins	4	0	4
	INS 105	Risk Management	3	0	3
	ISC 110	Workplace Safety	1	0	1
	ISC 112	Industrial Safety	2	0	2
	ISC 121	Envir Health & Safety	3	0	3
	MED 121	Medical Terminology I	3	0	3
	MED122	Medical Terminology II	3	Ö	3
	NUR 118	Nutrition/Diet Therapy	2	ŏ	2
	OST 136	Word Processing	2 3 3 3 2	2	3 1 2 3 3 3 2 2
	OST 148	Med Coding Billing & Insu	3	õ	3
	2000 4 4 7 10	and a sound with the same		77	75

	OST 149 PSY 110 PSY 281 SOC 213 SOC 220 SPA 111 SPA 181 SPA 120 WEB 110	Med Legal Issues Life Span Development Abnormal Psychology Sociology of the Family Social Problems Elementary Spanish I Spanish Lab I Spanish for the Workplace Internet/Web Fundamentals	Class Hours 3 3 3 3 3 3 0 0 3	Lab Hours 0 0 0 0 0 0 0 2 0 3	Credit Hours 3 3 3 3 3 3 3 1 3 3 3
IV.		Hours - 1 Credit Hour Success & Study Skills	0	2	1
Total	Required Hour			~	72

General Occupational Technology - Diploma (D 55 28 0)

			Class Hours	Lab Hours	Credit Hours
I.		ation Requirements - 9 Credit Hours			
	ENG 111	Expository Writing	3 3 3	0	3 3
	ENG 113	Literature-Based Research	3	0	3
	COM 231	Public Speaking	3	0	3
II.	Required Cor	re Courses - 13 Credit Hours			
	BIO 111	General Biology I	3	3	4
	CIS 110	Introduction to Computers	3 2 3	3 2 0	4 3 3 3
	PSY 150	General Psychology	3	0	3
	SOC 210	Introduction to Sociology	3	0	3
ш.	Other Major	Required Courses - 15 Credit Hours			
	BIO 155	Nutrition	3	0	3
	BIO 163	Basic Anatomy and Physiology	3 4 3 3 2 2	0 2 3 3 2	3 5 4 4 3 3 1 3 3 3 3 3 3 3 3 3 3
	BIO 165	Anatomy and Physiology I	3	3	4
	BIO 166	Anatomy and Physiology II	3	3	4
	BIO 175	General Microbiology	2	2	3
	CHM 131	Introduction to Chemistry		0	3
	CHM 131A	Introduction to Chemistry Lab	0 2 2 3 3 3	3	1
	MAT 101	Applied Mathematics I	2	2	3
	MAT 115	Mathematical Models	2	2	3
	MAT 161	College Algebra	3	0	3
	PSY 241	Developmental Psychology	3	0	3
		Humanities Elective	3	0	3
III.	Other Major	Hours - 1 Credit Hour			
0.10408	ACA 115	Success & Study Skills	0	2	1
Total	Required Hours				38

Industrial Systems Technology - Degree (A 50 24 0)

Curriculum Description

The Industrial Systems Technology curriculum is designed to prepare or upgrade individuals to safely service, maintain, repair, or install equipment. Instruction includes theory and skill training needed for inspecting, testing, troubleshooting, and diagnosing industrial systems.

Students will learn multi-craft technical skills in blueprint reading, mechanical systems maintenance, electricity, hydraulics/pneumatics, welding, machining or fabrication, and includes various diagnostic and repair procedures. Practical application in these industrial systems will be emphasized and additional advanced course work may be offered.

Upon completion of this curriculum, graduates should be able to individually, or with a team, safely install, inspect, diagnose, repair, and maintain industrial process and support equipment. Students will also be encouraged to develop their skills as life-long learners.

Community Comm					Class Hours	Lab Hours	Credit
MAT 115	T.	General Edu	cation Requirem	ents - 15 Credit Hours	Lionia	Liouta	Lionia
ENG 11					2	2	3
ENG 113					3		
Column							3
Humanities Elective		201100.220			**		-
Social Science Elective 3		ENG 114					
Required Core Courses - 4 Credit Hours							3
MNT 110			Social Science	e Elective	3	0	3
MNT 110	II.	Required Co	re Courses - 4 Cr	edit Hours			
WLD 112 Basic Welding Processes 1 3 2					1	3	2
ELC 112 DC/AC Electricity 3 6 5 BPR 111 Blueprint Reading 1 2 2 HYD 110 Hydraulics/Pneumatics I 1 4 3 ISC 121 Env. Health & Safety 3 0 3 IV. Other Major Required Courses - 36-37 Credit Hours 1 3 2 AHR 120 HVACR Maintenance 1 3 2 2 3 AHR 130 HVAC Controls 2 2 3 AHR 160 Refrigerant Certification 1 0 1 CIS 110 Introduction to Computers 2 2 3 ELC 111 Intro to Electricity 2 2 3 ELC 115 Industrial Wiring 2 6 4 ELC 128 Intro to PLC 2 3 3 ELC 128 Electrical Drawings 1 3 2 MAC 114 Intro to Metrology 2 0 2 MEC 181 Intro to CIM 2 3 3 MEC 181 Intro to CIM 2 0 2 PLU 111 Introduction to Basic Plumbing 1 3 2 WLD 121 GMAW (Mig) FCAW/Plate 2 6 4 Major Technical Elective 2 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 120 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1						3	2
ELC 112 DC/AC Electricity 3 6 5 BPR 111 Blueprint Reading 1 2 2 HYD 110 Hydraulics/Pneumatics I 1 4 3 ISC 121 Env. Health & Safety 3 0 3 IV. Other Major Required Courses - 36-37 Credit Hours 1 3 2 AHR 120 HVACR Maintenance 1 3 2 2 3 AHR 130 HVAC Controls 2 2 3 AHR 160 Refrigerant Certification 1 0 1 CIS 110 Introduction to Computers 2 2 3 ELC 111 Intro to Electricity 2 2 3 ELC 115 Industrial Wiring 2 6 4 ELC 128 Intro to PLC 2 3 3 ELC 128 Electrical Drawings 1 3 2 MAC 114 Intro to Metrology 2 0 2 MEC 181 Intro to CIM 2 3 3 MEC 181 Intro to CIM 2 0 2 PLU 111 Introduction to Basic Plumbing 1 3 2 WLD 121 GMAW (Mig) FCAW/Plate 2 6 4 Major Technical Elective 2 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 120 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1	***						
BPR 111 Blueprint Reading	ш.				23	- 2	12
IV. Other Major Required Courses - 36-37 Credit Hours 1 3 2 2 2 3 3 4 1 1 1 0 1 1 1 0 1 1						6	5
IV. Other Major Required Courses - 36-37 Credit Hours 1 3 2 2 2 3 3 4 1 1 1 0 1 1 1 0 1 1						2	2
IV. Other Major Required Courses - 36-37 Credit Hours 1 3 2 2 2 3 3 4 1 1 1 0 1 1 1 0 1 1		Committee and the Committee of			2		3
IV. Other Major Required Courses - 36-37 Credit Hours 1 3 2 2 2 3 3 4 1 1 1 1 1 1 1 1 1							3
AHR 120 HVACR Maintenance 1 3 2 AHR 130 HVAC Controls 2 2 3 AHR 160 Refrigerant Certification 1 0 1 CIS 110 Introduction to Computers 2 2 3 ELC 111 Intro to Electricity 2 2 3 ELC 115 Industrial Wiring 2 6 4 ELC 128 Intro to PLC 2 3 3 ELC 132 Electrical Drawings 1 3 2 MAC 114 Intro to Metrology 2 0 2 MEC 112 Machine Processes II 2 3 3 MEC 181 Intro to CIM 2 3 3 MEC 181 Intro to CIM 2 0 2 PLU 111 Introduction to Basic Plumbing 1 3 2 WLD 121 GMAW (Mig) FCAW/Plate 2 6 4 Major Technical Elective 2-3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1		ISC 121	Env. Health &	Safety	3	0	3
AHR 120 HVACR Maintenance 1 3 2 2 3 3 AHR 130 HVAC Controls 2 2 2 3 3 AHR 160 Refrigerant Certification 1 0 1 CIS 110 Introduction to Computers 2 2 2 3 ELC 111 Intro to Electricity 2 2 2 3 ELC 115 Industrial Wiring 2 6 4 ELC 128 Intro to PLC 2 3 3 3 ELC 132 Electrical Drawings 1 3 2 ELC 132 Electrical Drawings 1 3 2 MAC 114 Intro to Metrology 2 0 2 MEC 112 Machine Processes II 2 3 3 MEC 181 Intro to CIM 2 0 2 2 3 3 MEC 181 Intro to CIM 2 0 2 4 Major Technical Elective 2 3 3 3 MNT 150 Basic Plumbing 1 3 2 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1	IV.	Other Major	Required Cours	es - 36-37 Credit Hours			
AHR 130 HVAC Controls AHR 160 Refrigerant Certification C1S 110 Introduction to Computers ELC 111 Intro to Electricity ELC 115 Industrial Wiring ELC 128 Intro to PLC ELC 132 Electrical Drawings MAC 114 Intro to Metrology MEC 112 Machine Processes II MEC 181 Intro to CIM PLU 111 Introduction to Basic Plumbing WLD 121 GMAW (Mig) FCAW/Plate Major Technical Elective MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1	300				1	3	2
CIS 110						2	3
CIS 110					ĩ	õ	í
ELC 111					2		
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1						2	3
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1					2	6	A
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1				mg			3
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1				winge		2	2
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1							5
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1					5		2
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1				CSSCS II			3
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1				P. J. Pl. Tim			20
Major Technical Elective 2 – 3 MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1							4
MNT 150 Basic Building Maintenance (1-3-2) MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1		WLD 121			2	0	4
MNT 220 Rigging & Moving (1-3-2) PLU 211 Commercial/Ind Plumbing (2-2-3) V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1							2 - 3
V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1							
V. Other Required Hours - 1 Credit Hour ACA 115 Success & Study Skills 0 2 1				Rigging & Moving (1-3-2)			
ACA 115 Success & Study Skills 0 2 1			PLU 211	Commercial/Ind Plumbing (2-2-3)			
ACA 115 Success & Study Skills 0 2 1	V.	Other Requi	red Hours - 1 Cre	edit Hour			
Total Penninal House					0	2	1
	Thetal	Desnived House					72-73

Information Systems Security - Degree (A 25270)

Curriculum Description

Information Systems Security covers a broad expanse of technology concepts. This curriculum provides individuals with the skills required to implement effective and comprehensive information security controls.

Course work includes networking technologies, operating systems administration, information policy, intrusion detection, security administration, and industry best practices to protect data communications.

Graduates should be prepared for employment as security administrators. Additionally, they will acquire the skills that allow them to pursue security certifications.

		Class Hours	Lab Hours	Credit Hours
I. General Education	Requirements - 15 Credit Hours			220111
ECO 252	Principles of Economics	3	0	3
ENG 111	Expository Writing	3	0	3
2007.00.0001.00.000	Humanities Elective	3	0	3
COM 231	Public Speaking	3	0	3
MAT 115	Mathematical Models	3	0	3
II. Required Core Co	urses - 45 Credit Hours			
CIS 110	Introduction to Computers	2	2	3
CIS 115	Introduction to Logic	2	3	
CTS 115	Info. Systems Business Concept	3	0	3
DBA 110	Database Concepts	2	3	3
NET 125	Networking Basics	1	4	3 3 3 3
NET 126	Routing and Switching I	1	4	3
NOS 110	Operating Systems Concepts	2	3	3
NOS 130	Windows Single User	2	2	3
NOS 230	Windows Admin I	2	2	3
SEC 110	Security Concepts	3	0	3 3 3 3 3 3
SEC 150	Secure Communications	2	2	3
SEC 160	Secure Admin I	2	2	3
SEC 210	Intrusion Detection	2	2	3
SEC 220	Defense-in-depth	2	2	3
SEC 289	Security Capstone Project	1	4	3
III. Other Major Req	uired Courses - 13 credit hours			
CSC 134	C++ Programming	2	3	3
CTS 285	Systems Analysis & Design	3	0	3
COE 110	World of Work	1	0	1
Electives Hou	urs: Choose a minimum of 6 credit hours			
CSC 139	Visual Basic Programming			
CSC 234	Advanced C++ Programming			
NET 225	Advanced Routing and Switching			
NET 226	Advanced Routing and Switching II			
NOS 120	Linux Admin I			
NOS 220	Linux Admin II			
WEB 140	Web Development Tools			
WEB 210	Web Design			
IV. Other Required H				
ACA 115	Success & Study Skills	0	2	1
Total Required hours				74

Computer-Intergrated Machining - Diploma (D 50 21 0)

Curriculum Description

The Machining Technology curriculum is designed to develop skills in the theory and safe use of hand tools, power machinery, computerized equipment, and sophisticated precision inspection instruments.

Students will learn to interpret blueprints, set up manual and CNC machines, perform basic and advanced machining operations, and make decisions to ensure that work quality is maintained.

Employment opportunities for machining technicians exist in manufacturing industries, public institutions, governmental agencies, and in a wide range of specialty machining job shops.

			Class Hours	Lab Hours	Credit Hours
I.	General Educa	tion Requirements - 9 Credit Hours			
	ENG 101	Applied Communications I	3	0	3
	MAT 101	Applied Mathematics I	3 2 2	2 2	3 3
	MAT 102	Applied Mathematics II	2	2	3
11.	Required Co	re Courses - 18 Credit Hour			
	MAC 111	Machining Technology I	2	12	6
	MAC 112	Machining Technology II	2 2 2	12	6
	MAC 113	Machining Technology III	2	12	6
III.	Required Su	bject Courses - 8 Credit Hours			
	BPR 111	Blueprint Reading	1	2	2
	BPR 121	Blueprint Reading: Mechanical	1	2 2 3 3	2 2 2 2
	MAC 122	CNC Turning	1	3	2
	MAC 124	CNC Milling	1	3	2
IV.	Other Major				
	ISC 110	Workplace Safety	1	0	1
		OR			
	ISC 121	Environmental Health & Safety			
	MAC 121	Introduction to CNC	2	0	2
	MAC 151	Machining Calculations	1	2	2
v.	Other Requi	red Courses - 7 Credit Hours			
	CIS 110	Intro to Computers	2	2	3
	MAC 222	Advanced CNC Turning	2	2 3 3	2 2
	MAC 224	Advanced CNC Milling	1	3	2
Tota	Required Hour	8			47

Computer-Intergrated Machining - Certificate (C 50 21 0)

		Class	Lab	Credit
		Hours	Hours	Hours
Machining Certificate	- 12 Hours (C 50 21 001)			
MAC 111	Machining Technology I	2	12	6
MAC 112	Machining Technology II	2	12	6
CNC Certificate - 16 I	Iours (C 50 21 002)			
MAC 113	Machining Technology III	2	12	6
MAC 122	CNC Turning	1	3	2
MAC 124	CNC Milling	1	3	2
MAC 121	Introduction to CNC	2	0	2
MAC 222	Advanced CNC Turning	1	3	2
MAC 224	Advanced CNC Milling	1	3	2

		Class	Lab	Credit
Motorsports	Machining Certificate - 16 Hours (C 50 21 003)	Hours	Hours	Hours
MAC 111	Machining Technology I	2	12	6
BPR 111	Blueprint Reading	ī	2	2
MAC 122	CNC Turning	1	3	2
MAC 124	CNC Milling	1	3	2
MAC 121	Introduction to CNC	2	0	2
MAC 151	Machining Calculations	1	2	2

Manufacturing Technology - Degree (A 50 32 0)

Curriculum Description

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

Students will gain real-world knowledge in manufacturing management practices, manufacturing materials and processes, research and development, and quality assurance. Course work will include machining processes, CAD/CAM, CNC principles, and other computerized production techniques.

Graduates should qualify for employment as a manufacturing technician, quality assurance technician, CAD/CAM technician, team leader, or research and development technician. The student will be able to advance in the workplace and develop with new technologies.

	orogica,			Class Hours	Lab Hours	Credit Hours
I.	General Education Requirements - 15 Credit Hours		(272-04)	100	0.000	
	ENG 111	Expository W		3	0	3
	ENG 114 Professional Research & Reporting			3	0	3
		OR				
	ENG 113	Literature-Ba	sed Research			
	MAT 115	Mathematical	Models	2	2	3
		Humanities E	lective	2 3 3	0	3 3 3
		Social Science	e Elective	3	0	3
п.	Required Sul	bject Courses - 1	3 Credit Hours			
	ISC 121	Environmental Health and Safety		3	0	3
	ISC 132	Manufacturing Quality Control		3 2 2	3	3
	MEC 180	Engineering Materials		2	3	3
	DFT 111	Technical Drafting I		1	3	2
	MAC 114	Intro to Metro		2	0	3 3 2 2
ш.	Other Major	Required Cours	es - 45 or 47 Credit Hours			
	CIS 110	Introduction (2	2	3
	DFT 111A	Technical Dra		0	2	
	MAC 121	Introduction t		2	0	2
	MEC 231	Computer Aid	ded Manufacturing I	1	4	1 2 3
		Major Electiv				2 or 3
		EGR 110	Intro to Engineering Tech (1-2-2)			200
		MEC 172	Introduction to Metallurgy (2-2-3)			
		PLA 110	Introduction to Plastics (2-0-2)			
		PLA 120	Injection Molding (2-3-3)			
		PLA 162	Plastics Manuf Processes (2-3-3)			
		WLD 145	Thermoplastics Welding (1-3-2)			

		Class Hours	Lab Hours	Credit Hours
Choose one of th	e following Tracks:	LIVING	LIVINA	LAMMA
	acturing Technology)			
DFT 112		1	3	2
DFT 112		0	3	1
DFT 151		2	3 3 3 2 3 3	2 1 3 3 3 3 3 3 3 3 3 3 2 3 3 2
DFT 152	CAD II	2 2 2	3	3
ELC 111	Introduction to Electricity	2	2	3
ELC 128	Itroduction to PLC	2	3	3
HYD 11	Hydraulics/Pneumatics I	2	3	3
MEC 11	1 Machine Processes I	1	4	3
MEC 11	2 Machine Processes II	2	3	3
MEC 18	Introduction to CIM	2	0	2
MEC 23	2 Computer Aided Manufacturing II	1		3
MEC 23	6 Regional Manufacturing	1	4	3
WLD 11	2 Basic Welding Processes	1	3	2
Track B (Manuf	acturing Technology - Machining)			
BPR 111		1	2	2
DFT 121	Intro to GD&T	1	2 2 3 2	2 2 3 2 6 6 6 2 2 2 2
DFT 152	CAD II	2	3	3
DFT 231	Jig and Fixture	1		2
MAC 11	I Machining Technology I	2	12	6
MAC 11		2	12	6
MAC 11		2	12	6
MAC 12		1	3	2
MAC 12		1	3	2
MAC 22	2 Advanced CNC Turning	1	3	2
MAC 22	4 Advanced CNC Milling	1	3	2
IV. Other R	equired Hours - 1 Credit Hour			
ACA 11		0	2	1
Total Required I	lours			74 - 76

Mechanical Drafting Technology - Degree (A 50 34 0)

Curriculum Description

The Mechanical Drafting Technology curriculum prepares technicians to produce drawings of mechanical parts, components of mechanical systems, and mechanisms. CAD and the importance of technically correct drawings and designs based on current standards are emphasized.

Course work includes mechanical drafting, CAD, and proper drawing documentation. Concepts such as machine shop processes, basic materials, and physical sciences as they relate to the design process are also included. The use of proper dimensioning and tolerance techniques is stressed.

Graduates should qualify for employment in mechanical areas such as manufacturing, fabrication, research and development, and service industries.

			Class	Lab	Credit
			Hours	Hours	Hours
I.	General Edu	cation Requirements - 15 Credit Hours			
	ENG 111	Expository Writing	3	0	3
	ENG 114	Professional Research & Reporting	3	0	3
		OR			
	ENG 113	Literature-Based Research			
	MAT 115	Mathematical Models	2	2	3
		OR			
	MAT 161	College Algebra			
		Humanities Elective	3	0	3
		Social Science Elective	3	0	3

			Class Hours	Lab Hours	Credit Hours
II.	Required Co.	re Courses - 10 Credit Hours		-	
	DFT 111	Technical Drafting I	1	3	2
	DFT 112	Technical Drafting II	1	3 3 3	2 2 3 3
	DFT 151	CADI		3	3
	DFT 152	CAD II	2 2	3	3
III.	Required Sul	bject Courses - 3 Credit Hours			
	MEC 111	Machine Processes I	1	4	3
IV.	Other Major	Required Courses - 44 Credit Hours			
	CIS 110	Introduction to Computers	2	6	3
	DDF 211	Design Process I	1		4
	DDF 221	Design Drafting Project	0	4	2
	DFT 111A	Technical Drafting I Lab	0	3	1
	DFT 112A	Technical Drafting II Lab	0	3	1
	DFT 115	Architectural Drafting	1	2	2
	DFT 121	Intro to Geometric Dimensioning and Tolerancing	1	2	2
	DFT 153	CAD III	2	3	3
	DFT 154	Intro Solid Modeling	2	3	3
	DFT 231	Jig & Fixture Design	1	3 2 2 3 3 2	1 2 2 3 3 2 3 2
	DFT 254	Interm Solid Model/Render	2	3	3
		Technical Elective (choose one):			2
		DFT 161 Pattern Design & Layout			
		MEC 181 Introduction to CIM			
		MNT 222 Industrial Sys Schematics			
	EGR 110	Introduction to Engineering Technology	1	2	2
	HYD 110	Hydraulics/Pneumatics I	2 2 2 2	2 3 3	2 3 2 3 3
	ISC 132	Mfg. Quality Control	2	3	3
	MAC 121	Introduction to CNC	2	0	2
	MEC 180	Engineering Materials	2	3	3
	MEC 231	Computer Aided Manufacturing I	1	4	3
V.		red Hours - 1 Credit Hour			
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hours	4			73

Mechanical Drafting Technology - Diploma (D 50 34 0)

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Courses - 6 Credit Hours			
	ENG 111	Expository Writing	3	0	3
	MAT 115	Mathematical Models	2	2	3
n.	Required Core Courses - 10 Credit Hours				
	DFT 111	Technical Drafting I	1	3	2
	DFT 112	Technical Drafting II	1	3	2
	DFT 151	CADI	2	3	3
	DFT 152	CAD II	2	3	3
ш.	Required Su	bject Courses - 3 Credit Hours			
	MEC 111	Machine Processes I	1	4	3

				Class	Lab	Credit
				Hours	Hours	Hours
IV.	Other Major R					
	DDF 211	Design Proces	s I	1	6	4
	DFT 111A	Technical Drafting I Lab		0	3	1
	DFT 112A	Technical Drafting II Lab		0	3	1
	DFT 115	Architectural l	Architectural Drafting		2	2
	DFT 121	Intro to Geom	Intro to Geometric Dimensioning and Tolerancing		2	2 3
	DFT 153	CAD III	CAD III		3	3
	DFT 154	Intro Solid Modeling		2	3	3
		Technical Ele-	ctive (Choose one):			2
		DFT 161	Pattern Design & Layout			
		MEC 181	Introduction to CIM			
		MNT 222	Industrial Sys Schematics			
	ISC 132	Mfg. Quality Control		2 2	3	3
	MEC 180	Engineering N	faterials	2	3	3
Total	Required Hours					43

Mechanical Drafting Technology - Certificate (C 50 34 0)

			Class Hours	Lab <u>Hours</u>	Credit Hours
	DFT 111	Technical Drafting I	1	3	2
	DFT 111A	Technical Drafting I Lab	0	3	1
	DFT 112	Technical Drafting II	1	3	2
	DFT 112A	Technical Drafting II Lab	0	3	1
	DFT 151	CADI	2	3	3
	DFT 152	CAD II	2	3	3
	MEC 111	Machine Processes I	1	4	3
ota	Required Hours	C. I amount of the control of the co			15

Mechanical Engineering Technology - Degree (A 40 32 0)

Curriculum Description

The Mechanical Engineering Technology curriculum prepares graduates for employment as technicians in the diversified mechanical and manufacturing engineering fields. Mechanical Engineering technicians assist in design, development, testing, process design and improvement, and troubleshooting and repair of engineered systems. Emphasis is placed on the integration of theory and hands-on application of engineering principles.

In addition to course work in engineering graphics, engineering fundamentals, materials and manufacturing processes, mathematics, and physics, students will study computer applications, critical thinking, planning and problem solving, and oral and written communications.

Graduates of the curriculum will find employment opportunities in the manufacturing or service sectors of engineering technology. Engineering technicians may obtain professional certification by application to organizations such as ASQC, SME, and NICET.

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requirements - 15 Credit Hours			
	ENG 111	Expository Writing	3	0	3
	ENG 114	Professional Research & Reporting	3	0	3
		OR			
	ENG 113	Literature-Based Research			
	MAT 161	College Algebra	3	0	3
		Humanities Elective	3	0	3
		Social Science Elective	3	0	3

				Class Hours	Lab Hours	Credit		
II. Required S	ubject Courses - 19	Credit Hours		AAAAAA	AAAAAAA	A.A.S. (MA.S.)		
DFT 151	CADI			2	3	3		
HYD 110	Hydraulics/Pn	eumatics I		2 2	3	3		
MEC 250		ngth of Material		4	3	3 5 3		
MEC 111	Machine Proc			1	4	3		
MAC 114	Intro to Metro	logy		2	0	2		
Choose one	of the following Tr	neks:						
Track A (M	echanical Engineeri	ng)						
ISC 121	Environmenta	l Health and Safety		3	0	3		
Track B (M	(echatronics)							
ISC 132	Manufacturing	g Quality Control		2	3	3		
III. Other Maje	or Required Course	es - 40 Credit Hours						
CIS 110	Intro to Comp			2 3	2 2	3		
PHY 131	Physics Mech	anics		3	2	4		
	Choose one of the following Tracks:							
Track A (M	lechanical Engineeri							
DFT 111		Technical Drafting I		1	3	2		
DFT 111A	Technical Dra	Technical Drafting I Lab		0	3 2 3	1		
EGR 110	Intro to Engin	Intro to Engineering Tech.		1	2	2		
ISC 132	Mfg Quality (Control		2	3	3		
MAC 121	Introduction to	o CNC		2	0	2		
MAT 162	College Trigo	nometry		2 3 2 2	0	1 2 3 2 3 4 3 3 3		
MEC 128	CNC Machini			2	4	4		
MEC 180	Engineering N	/aterials			3	3		
MEC 231	Comp-Aided	Manufacturing I		1	4	3		
MEC 236	Regional Man	ufacturing		1	4			
MEC 270	Machine Desi	gn		3	3	4		
MEC 271	Machine Desi	gn Project		0	3	1		
	Elective (choo	ose from the following)				2		
	DFT 121	Intro to GD&T						
	MEC 181	Introduction to CIM						
	PLA 110	Introduction to Plastics						
	(echatronics)			U.	ij.	8		
CET 161	Procedural Procedural			2	3	3		
EGR 285	Design Projec			0	4	2		
ELC 112	DC/AC Electr	ricity		3	6	3 2 5 3		
ELC 128	Intro to PLCs			2	3			
ELC 228	PLC Applicat			2	6	4		
ELN 131		or Applications		3	3	4		
ELN 133	Digital Electro			0 3 2 2 3 3 3 3	6 3 3 2	4		
ELN 232	Intro to Micro			3	3	4		
PHY 132		icity/Magnatiem		3	2	4		
	Physics Electr	ieny/wiagnetism		42	93			
	nired Hours - 1 Cre	dit Hour						
IV. Other Requ ACA 115	UNIO 04038100400	dit Hour		0	2	1 75		

Medical Office Administration - Degree (A 25 31 0)

Curriculum Description

This curriculum prepares individuals for employment in medical and other health-care related offices.

Course work will include medical terminology; information systems; office management; medical coding, billing and insurance; legal and ethical issues; and formatting and word processing. Students will learn administrative and support functions and develop skills applicable in medical environments.

Employment opportunities are available in medical and dental offices, hospitals, insurance companies, laboratories, medical supply companies, and other health-care related organizations.

			Clas Hou		Credit				
I.	General Educa	ation Requirements - 15 Credit Hours	Hou	s Hours	Hours				
**	MAT 115	Mathematical Models	2	2	3				
	ENG 111	Expository Writing	2 3	ő					
	ECO 252	Prin of Macroeconomics	3	0	2				
	COM 231		3	o	3				
	COM 231	Public Speaking Humanities Elective	3	0	3 3 3				
		Humanities Elective		U	2				
11.	Required Core Courses - 24 Credit Hours								
	CIS 110	Introduction to Computers	2	2	3				
	OST 134	Text Entry & Formatting	2 2 3	2	3				
	OST 164	Text Editing Applications		0	3				
	OST 289	Administrative Office Management	2 3	2	3				
	MED 121	Medical Terminology I		0	3 3 3 3 3 3				
	MED 122	Medical Terminology II	3	0	3				
	OST 148	Med Coding Billing & Insu	3	0	3				
	OST 149	Med Legal Issues	3	0	3				
ш.	Other Major F	Required Courses - 31/32 Credit Hours							
	ACC 120	Prin of Financial Acct	3	2	4				
	BUS 121	Business Math	3 2	2 2	3				
	BUS 260	Business Communication	3	0	3				
	OST 131	Keyboarding	ī	2	2				
	OST 184	Records Management	2	2	3				
	OST 241	Med Ofc Transcription I	ī	2	2				
	OST 243	Medical Office Simulation	2	2	3				
	OST 286	Professional Development	3	õ	3 2 3 2 3 2 3				
IV.	Additional N	Anior Required Courses							
200		Additional Major Required Courses Select Track A or B							
	Track A								
	CTS 130	Spreadsheet	2	2	3				
	DBA 110	Database Concepts	2	3	3				
	OST 136	Word Processing	2	2	3				
	Track B	Word Processing	7		7				
	OST 247	Procedure Coding	1	2	2				
	OST 248	Diagnostic Coding	î						
	OST 249	CPC Certification	3	2 2	2				
20									
V.		red Hours - 2 Credit Hours	4						
	ACA 115	Success & Study Skills	0	2	1				
	COE 110	World of Work	1	0	1				
Tota	l Required Hour	s			72/73				

Medical Office Administration - Diploma (D 25 31 0)

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requirements - 6 Credit Hours		20000000	7,00000
	MAT 115	Mathematical Models	2	2	3
	ENG 111	Expository Writing	3	0	3
II.	Core Courses - 24 Credit Hours				
	CIS 110	Introduction to Computers	2	2	3
	OST 134	Text Entry & Formatting	2 2 3	2	3 3 3 3 3
	MED 121	Medical Terminology I	3	0	3
	MED 122	Medical Terminology II	3	0	3
	OST 148	Med Coding Billing & Insu	3	0	3
	OST 149	Med Legal Issues	3	0	3
	OST 164	Text Editing Applications	3	0	3
	OST 289	Administrative Office Management	2	2	3
ш.	Other Major	Required Courses - 15 Credit Hours			
	ACC 120	Prin of Financial Acet	3	2	4
	BUS 121	Business Math	3 2	2	3
	OST 131	Keyboarding	1	2	3 2
	OST 184	Records Management	2 3	2	3
	OST 286	Professional Development	3	0	3
IV.	Other Requi	red Hours - 2 Credit Hours			
	ACA 115	Success & Study Skills	0	2	1
	COE 110	World of Work	1	0	1
Total	Required Hour	s			47
		Medical Office Administration - Certifi	cate (C 25 31 0)		
			Class	Lab	Credit
			Hours	Hours	Hours
	CIS 110	Introduction to Computers	2	2	3
	OST 131	Keyboarding	ĩ	2	2
	MED 121	Medical Terminology I	3	0	3
	MED 122	Medical Terminology II	3	0	3
	OST 148	Med Coding Billing & Insu	3	0	3
	OST 286	Professional Development	3	o	3
Total	Required Hour	s			17

Medical Office Administration - Coding Certificate (C 25 31 0 02)

		Class	Lab	Credit
		Hours	Hours	Hours
MED 121	Medical Terminology I	3	0	3
OST 148	Medical Coding, Billing and Insurance	3	0	3
MED 122	Medical Terminology II	3	0	3
OST 247	Procedure Coding	1	2	2
OST 248	Diagnostic Coding	1	2	2
OST 249	CPC Certification	3	2	4
Total Required Hour	s			17

Medical Office Administration – Medical Transcription Certificate (C 25 31 0 03)

		Class Hours	Lab Hours	Credit Hours
OST 131	Keyboarding	1	2	2
OST 136	Word Processing	2	2	3
OST 164	Text Editing Applications	3	0	3
OST 241	Medical Office Transcription I	1	2	2
MED 121	Medical Terminology I	3	0	3
MED 122	Medical Terminology II	3	0	3
Total Required Hour	s			16

Networking Technology - Degree (A 25 34 0)

Curriculum Description

The Networking Technology curriculum prepares individuals for employment supporting network infrastructure environments. Students will learn how to use technologies to provide reliable transmission and delivery of data, voice, image, and video communications in business, industry, and education.

Course work includes design, installation, configuration, and management of network infrastructure technologies and network operating systems. Emphasis is placed on the implementation and management of network software and the implementation and management of hardware such as switches and routers.

Graduates may find employment in entry-level jobs as local area network managers, network operators, network analysts, and network technicians. Graduates may also be qualified to take certification examinations for various network industry certifications, depending on their local program.

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Courses - 15 Credit Hours			
	General Educ	ation Requirements - 15 Credit Hours			
	ECO 252	Prin of Macroeconomics	3	0	3
	ENG 111	Expository Writing	3	0	3
		Humanities Elective	3	0	3
	COM 231	Public Speaking	3 3 3 2	0	3 3 3 3
	MAT 115	Mathematical Models	2	2	3
		OR			
	MAT 161	College Algebra			
п.	Required Co	re Courses - 45 Credit Hours			
п.	CIS 110	Introduction to Computers	2	2	3
	CIS 115	Intro to Prog & Logic	2 2 3 2	2 3 0 3 3	3 3 3
	CTS 115	Info. Systems Business Concept	3	0	3
	CTS 120	Hardware/Software Support		3	3
	DBA 110	Database Concepts	2	3	
	NET 125	Networking Basics	1	4	3
	NET 126	Routing Basics	1	4	3
	NET 225	Routing and Switching I	1	4	3
	NET 226	Routing and Switching II	1	4	3 3 3
	NET 289	Networking Project	1	4	3
	NOS 110	Operating System Concepts	2	3 2	
	NOS 120	Linux/UNIX Single User	2 2		3
	NOS 130	Windows Single User	2	2	3
	NOS 220	Linux/Unix Admin I	2 2 3	2 2 0	3 3
	SEC 110	Security Concepts	3	0	3

			Class Hours	Lab Hours	Credit Hours
III.	Other Major	Required Courses - 13 Credit Hours			
	COE 110	World of Work	1	0	1
	CTS 285	Systems Analysis and Design	3	0	3
	CTS 155	Tech Support Functions	2	2	3
	CSC 134	C++ Programing	2	3	3
	NOS 230	Windows Admin I	2	2	3
IV.	Other Requi	red Hours - 1 Credit Hour			
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	s			74

Networking Technology - Certificate (C 25 34 0)

		Class Hours	Lab Hours	Credit Hours
NET 125	Networking Basics	1	4	3
NET 126	Routing Basics	1	4	3
NET 225	Routing & Switching I	1	4	3
NET 226	Routing & Switching II	1	4	3
SEC 110	Security Concepts	3	0	3
NOS 110	Operating Systems Concepts	2	3	3
Required Hours				18

Total Required Hours

Occupational Education Associate - Degree (A 55 32 0)

Curriculum Description

The Occupational Education Associate curriculum is designed for individuals skilled and experienced in a trade or technical specialty who would like to receive an associate degree in preparation for teaching or other purposes.

Course work is designed to supplement previous education, training, and/or experience the individual has already attained.

Graduates of the program may find employment as instructors in the field of occupational education.

				Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requireme	ents - 19 Credit Hours	ALASIANSIA.	ALEXANDER III	NAME OF TAXABLE PARTY.
	ENG 111	Expository W		3	0	3
	ENG 113	Literature - Ba		3 3	0	3
	ENG 114	Professional F	tesearch & Reporting			
	MAT 115	Mathematical	CONTRACTOR OF CONTRACTOR CONTRACT	2	2	3
	PSY 150	General Psych	ology	3	0	3 3 4
		Humanities El	the state of the s	3	0	3
		Natural Science	ce Elective (Choose one):			4
		BIO 111	General Biology I			
		CHM 151	General Chemistry I			
II.	Required Co	re Courses - 21 C	redit Hours			
	EDU 175	Introduction to	o Trade & Ind Ed	3	0	3
	EDU 176	Occupational	Analysis and Course Dev	3	0	3
	EDU 177	Instructional ?	Methods	2	2	3
	EDU 179	Vocational Stu	ident Organizations	3	0 2	3
	EDU 271	Educational T	echnology	2	2	3
	EDU 281	Instruc Strat/F	tead and Writ	2 2 3	2	3 3 3 3 3
	ISC 121	Environmenta	l Health & Safety	3	0	3
			98			

			Class Hours	Lab Hours	Credit Hours
ш.	Other Major	Required Courses - 34 Credit Hours	Hours	Hours	Hours
	EDU 161	Intro to Exceptional Child	3	0	3
	EDU 178	Facilities Organization & Planning		2	3
	EDU 275	Effective Teacher Training	2 2	0	2
	CIS 110	Introduction to Computers	2	2	2 3
	Specialty Are	ca			23
	1. Through w	vork experience or informal course work			
	2. Through for	ormal training in field			
IV.		red Hours - 1 Credit Hour			
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	s			75
		Occupational Education Associate - Diplo	oma (D 55 32 0)		
			Class	Lab	Credit
		and the second second	Hours	Hours	Hours
I.	THE RESERVE A THE RESERVE	cation - 6 Credit Hours		0	
	ENG 111	Expository Writing	3.	0	3
	PSY 150	General Psychology	3	0	3
II.		re Courses - 21 Credit Hours			
	EDU 175	Introduction to Trade & Ind Ed	3	0	3
	EDU 176	Occupational Analysis and Course Dev	3 2	0	3 3 3 3
	EDU 177 EDU 179	Instructional Methods Vocational Student Organizations	3	0	3
	EDU 271	Educational Technology	2	2	3
	EDU 281	Instruc Strat/Read and Writ	2	2	3
	ISC 121	Environmental Health & Safety	3	ō	3
III.	Other Major	Required Courses - 8 Credit Hours			
	EDU 178	Facilities Organization & Planning	2	2	3
	EDU 275	Effective Teacher Training	2	0	2
	CIS 110	Introduction to Computers	2	2	3
IV.	C/10/10/10/10/10/10/10/10/10/10/10/10/10/	red Hours - 1 Credit Hour			
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	S			36
		Occupational Education Associate - Certif	icate (C 55 32 0)		
			Class	Lab	Credit
			Hours	Hours	Hours
	EDU 175	Introduction to Trade & Ind Ed	3	0	3
	EDU 177	Instructional Methods	2 3	2	3
	EDU 179	Vocational Student Organizations		0	3
	EDU 271	Educational Technology	2	2	3
	EDU 281 ISC 121	Instruc Strat/Read and Writ Environmental Health & Safety	2 3	2	3
			*	M.	33
Total	Required Hour	S .			18

Office Administration - Degree (A 25 37 0)

Curriculum Description

The Office Administration curriculum prepares individuals for positions in administrative support careers. It equips office professionals to respond to the demands of a dynamic computerized workplace,

Students will complete courses designed to develop proficiency in the use of integrated software, oral and written communication, analysis and coordination of office duties and systems, and other support topics. Emphasis is placed on non-technical as well as technical skills.

Graduates should qualify for employment in a variety of positions in business, government, and industry. Job classifications range from entry-level to supervisor to middle management.

				Class Hours	Lab Hours	Credit Hours
1.	General Edu	cation Requireme	ents - 15 Credit Hours			
	ECO 252	Prin of Macro	economics	3	0	3
	ENG 111	Expository W	riting	3	0	3
	COM 231	Public Speaki		3	0	3
	MAT 115	Mathematical		3 2	2	3
		Humanities E	lective	3	0	3
11.	Required Co	re Courses - 15 C	redit Hours			
	CIS 110	Introduction t		2 2 3 2	2 2	3
	OST 134	Text Entry an		2	2	3
	OST 164	Text Editing /		3	0	3
	OST 184	Records Man			2	3
	OST 289	Administrativ	e Office Management	2	2	3
III.			es - 40 Credit Hours	73	20	90
	ACC 120	Prin of Financ		3	2	4
	BUS 115	Business Law		3	0	3 3 3 3 3 1 2 3 3 3 3
	BUS 121	Business Mat		2 3 2 2 2 2	2	3
	BUS 260	Business Con	nmunication	3	0 2 3 2 2 0 2 2 0	3
	CTS 130	Spreadsheet		2	2	3
	DBA 110	Database Con		2	3	3
	CIS 165	Desktop Publ		2	2	3
	CTS 125	Presentation (2	2	3
	COE 110	World of Wor	k	1	0	1
	OST 131	Keyboarding		1	2	2
	OST 136	Word Process		2	2	3
	OST 286	Professional I		2 3 2		3
	WEB 110		Fundamentals	2	2	3
			ose one of the following courses)			3
		ACC 121 ACC 129	Principles of Managerial Accounting Individual Income Taxes			
		CIS 115	Introduction to Programming & Logic			
		ECO 251	Principles of Microeconomics			
		MKT 120	Principles of Marketing			
		MED 121	Medical Terminology I			
		WEB 210	Web Design			
IV.	Other Requi	ired Hours - 1 Cr	edit Hour			
	ACA 115	Success & St		0	2	1
Total	Required Hour	's				71

Office Administration - Diploma (D 25 37 0)

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	ecation - 6 Credit Hours	AMMA	ALUMIA	LICINIA
	ENG 111	Expository Writing	3	0	3
	MAT 115	Mathematical Models	3 2	2	3
п.	Required Co	ore Courses - 15 Credit Hours			
	CIS 110	Introduction to Computers	2	2	3
	OST 134	Text Entry and Formatting	2	2	3
	OST 164	Text Editing Applications	3	0	3
	OST 184	Records Management	2	0 2 2	3
	OST 289	Administrative Office Management	2 2 3 2 2	2	3 3 3 3
III.	Other Major	r Required Courses - 22 Credit Hours			
	ACC 120	Prin of Financial Acct	3 2	2	4
	BUS 121	Business Math	2	2	3
	CTS 125	Presentation Graphics	2	2	3
	COE 110	World of Work	1	0	1
	OST 131	Keyboarding	1	2	2
	OST 136	Word Processing	2	2	3
	OST 286	Professional Development	3	0	3
	WEB 110	Internet/Web Fundamentals	3 2	2 2 0 2 2 0 2 2 0 2	4 3 1 2 3 3 3
IV.	Other Requi	ired Hours - 1 Credit Hour			
-1500E	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	18			44

Office Administration - Certificate (C 25 37 0)

		Class	Lab	Credit
		Hours	Hours	Hours
CIS 110	Introduction to Computers	2	2	3
OST 131	Keyboarding	1	2	2
OST 134	Text Entry and Formatting	2	2	3
OST 136	Word Processing	2	2	3
OST 184	Records Management	2	2	3
OST 286	Professional Development	3	0	3
ACA 115	Success & Study Skills	0	2	1
Total Required Hours				18

Paralegal Technology - Degree (A 25 38 0)

Curriculum Description

The Paralegal Technology curriculum prepares individuals to work under the supervision of attorneys by performing routine legal tasks and assisting with substantive legal work. A paralegal/legal assistant may not practice law, give legal advice, or represent clients in a court of law.

Coursework includes substantive and procedural legal knowledge in the areas of civil litigation, legal research and writing, real estate, family law, wills, estates, trusts, and commercial law. Required courses also include subjects such as English, mathematics, and computer utilization.

Graduates are trained to assist attorneys in probate work, investigations, public records search, drafting and filing legal documents, research, and office management. Employment opportunities are available in private law firms, governmental agencies, banks, insurance agencies, and other business organizations.

			Class Hours	Lab Hours	Credit Hours
I.	General Educ	cation Courses - 18 credit hours			
	*ENG 111	Expository Writing	3	0	3
	+ENG 112	Argument-Based Research	3	0	3
	*ENG 114	Prof. Research and Reporting	3	0	3
		*Hum/Fine Arts Electve	3	0	3
	+MAT 140	Survey of Mathematics	3	0	3
		*Social/Behavioral Science elective	3	0	3
П.	Major Core (Courses - 50 credit hours			
	+LEX 110	Intro. To Paralegal Study	2	0	2
	+LEX 120	Legal Research/Writing I	2	2	3 2 3 3 2 2
	+LEX 130	Civil Injuries	2	0	2
	+LEX 140	Civil Litigation I	3	0	3
	+LEX 150	Commercial Law	2	2	3
	+LEX 210	Real Property I	2 2	0	2
	+LEX 240	Family Law		0	
	+LEX 250	Wills, Estates, and Trusts	2	2	3
III.	Other Major				
	*ACC 120	Prin of Financial Acct	3 2	2	4
	*CIS 110	Introduction to Computers	2	2	3
	*OST 136	Word Processing	2 2	2 2	3
	+LEX 121	Legal Research & Writing I	2	2	3
	+LEX 141	Civil Litigation II	2	2	3
	+LEX 160	Criminal Law & Procedure	2	2	3 3 2
	+LEX 211	Real Property II	1	4	3
	+LEX 270	Law Office Mgt./Tech.	1	2	2
	+LEX 280	Ethics and Professionalism	2	0	2
Selec	t 2 hours from th				
	+LEX 170	Administrative Law	2 2 2	0	2 2 2
	+LEX 220	Corporate Law	2	0	2
	+LEX 260	Bankruptcy & Collections		0 2	2
	+LEX 292	Selected Topics in Para. Tech.	1	2	2
Total	Required Hours				69

^{* =} Conducted at Isothermal Community College

^{+ =} Conducted at Western Piedmont Community College

Sustainability Technologies - Degree (A 40 37 0)

Curriculum Description

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.

			Class	Lab Hours	Credit
I.	General Edu	cation Requirements - 23 Credit Hours			200000
1,000	ENG 111	Expository Writing	3	0	3
	ENG 113	Literature – Based Research (3 – 0 – 3) OR			
	ENG 114	Professional Research & Reporting	3	0	3
	MAT 161	College Algebra	3 3 3 3 3	0	3
	PHY 131	Physics - Mechanics	3	2	4
	PHY 132	Physics – Elec & Magnetism	3	0 2 2 0	4 4 3 3
		Humanities Elective	3	0	3
		Social Science Elective	3	0	3
11.	Required Co	re Courses – 12 Credit Hours			
	BIO 140	Environmental Biology	3	0	3
	SST 110	Intro to Sustainability	3 3 2 3	0	3 3 3
	SST 120	Energy Use Analysis	2	0	3
	SST 210	Issues in Sustainability	3	0	3
ш.	Required Subject Courses - 12 Credit Hours				
	ARC 111	Intro to Arch Technology	1	6	3
	CMT 210	Prof Construction Supervision	1 3 1	0	3 2
	SST 140	Green Building Concepts	1	0 3 6	2
	SRV 110	Surveying I	2	6	4
IV.	Other Major	Required Courses - 26 Credit Hours			
	ALT 220	Photovoltaic Sys Tech	2	3	3
	BIO 140A	Environmental Biology Lab	0 2	3 2 3 3	1
	CIS 110	Introduction to Computers	2	2	3
	DFT 111	Technical Drafting I	1	3	1 3 2 1 5 3 3 5
	DFT 111A	Technical Drafting I Lab	0	3	1
	ELC 112	DC/AC Electricity	0 3 3 2 4	6	5
	ISC 121	Envir Health & Safety	3	0	3
	MEC 180	Engineering Materials	2	3	3
	MEC 250	Statics & Strength of Mat'ls	4	3	5
v.		red Hours - 1 Credit Hour			
	ACA 115	Success & Study Skills	0	2	1
Total	Required Hour	s			74

Sustainability Technologies - Diploma (D 40 37 0)

			Class Hours	Lab <u>Hours</u>	Credit Hours
I.		cation Courses - 10 Credit Hours			
	ENG 111	Expository Writing	3 3 3	0	3 4
	MAT 161	College Algebra	3	0	3
	PHY 131	Physics – Mechanics	3	2	
п.	Required Co	urses – 12 Credit Hours			
	BIO 140	Environmental Biology	3	0	3
	SST 110	Intro to Sustainability	3 3 2 3	0 0 2	3 3 3
	SST 120	Energy Use Analysis	2	2	3
	SST 210	Issues in Sustainability	3	0	3
ш.	Other Major	Hours - 17 Credit Hours			
	ALT 220	Photovoltaic Sys Tech	2	3	3
	ARC 111	Intro to Arch Technology	I	3 6 3 6 3 3	3
	BIO 140A	Environmental Biology Lab		3	1
	ELC 112	DC/AC Electricity	0 3 2	6	5
	MEC 180	Engineering Materials	2	3	3
	SST 140	Green Building Concepts	1	3	3 1 5 3 2
Total	Required Hour	•			39
		Sustainability Technologies – Certi	ficate (C 40 37 0)		
	ARC 111	Intro to Arch Technology	1	6	3
	BIO 140	Environmental Biology	3	0	3
	BIO 140A	Environmental Biology Lab	0	3	1
	SST 110	Intro to Sustainability	3 0 3	0 3 0	3 1 3 3
	SST 210	Issues in Sustainability	3	0	3
	Total Requir	ed Hours			13

Web Technologies - Degree (A 25 29 0)

Curriculum Description

The Web Technologies curriculum prepares graduates for careers in the information technology arena using computers and distributed computing to disseminate and collect information via the web.

Course work in this program covers the terminology and use of computers, network devices, networks, servers, databases, applications, programming languages, as well as web applications, site development and design. Studies will provide opportunity for students to learn related industry standards.

Graduates should qualify for career opportunites as designers, administrators, or developers in the areas of web application, websites, web services, and related areas of distributed computing.

			Class	Lab	Credit
			Hours	Hours	Hours
I.	General Edu	cation Requirements - 15 Credit Hours			
	ECO 252	Principles of Macroeconomics	3	0	3
	ENG 111	Expository Writing	3	0	3
		Humanities Elective	3	0	3
	COM 231	Public Speaking	3	0	3
	MAT 115	Mathematical Models	2	2	3
		OR			
	MAT 161	College Algebra	3	0	3

				Class Hours	Lab Hours	Credit Hours
II.	Required Co	re Courses - 42 Credit hours		Littura	Libbia	Homs
	CIS 115	Intro to Programming and Logic		2	3	3
	DBA 110	Database Concepts		2	3	3
	NOS 110	Operating Systems Concepts		2	3	3
	SEC 110	Security Concepts			0	3
	WEB 110	Internet/Web Fundamentals		3 2 2		3 3 3 3 3 3 3 3 3 3 3
	WEB 115	Web Markup and Scripting		2	2 2	3
	WEB 120	Intro Internet Multimedia		2	2	3
	WEB 140	Web Development Tools			2	3
	WEB 210	Web Design		2 2	2	3
	WEB 230	Implementing Web Serv			2	3
	WEB 250	Database Driven Websites		2 2 2	2 2 2 2 2	3
	CIS 110	Introduction to Computers		2	2	3
	CTS 115	Info. Systems Business Concepts		3	0	3
	NET 125	Networking Basics		1	4	3
ш.	Other Major	Required Courses - 15 Credit Hours				
0000	MKT 120	Principles of Marketing		3	0	3
	CTS 289	Systems Support Project		1	4	3 3 3 3
	CTS 285	Systems Analysis & Design		3	0	3
	WEB 182	PHP Programming		2	2	3
	*Elective (see	attached list)				3
IV.	Other Requir	red Hours - 2 Credit Hour				
	ACA 115	Success & Study Skills		0	2	1
	COE 110	World of Work		1	0	1
	*Electives: (c	hoose a minimum of 3 credit hours)				
	CSC 134	C++ Programming	NET 126	Routing Basics		
	CSC 139	Visual Basic programming	NOS 120	Linux/UNIX Ac	lmin I	
	CSC 234	Adv C++ Programming	NOS 130	Windows Single	User	
	SEC 150	Secure Communications	BUS 230	Small Business	Mgmt	
	CSC 239	Adv. Visual Basic Programming	SEC 160	Secure Admin I	1.000	
Total	Required Hours					74

Web Technologies - Certificate (C 25 29 0)

		Class	Lab	Credit
		Hours	Hours	Hours
NET 125	Networking Basics	1	4	3
SEC 110	Security Concepts	3	0	3
WEB 115	Web Markup and Scripting	2	2	3
WEB 140	Web Development Tools	2	2	3
WEB 210	Web Design	2	2	3
Total Required Hours				15

Welding Technology - Degree (A 50 42 0)

Curriculum Description

The Welding Technology curriculum provides students with a sound understanding of the science, technology, and applications essential for successful employment in the welding and metal industry.

Instruction includes consumable and non-consumable electrode welding and cutting processes. Courses in math, blueprint reading, metallurgy, welding inspection, and destructive and non-destructive testing provides the student with industry-standard skills developed through classroom training and practical application.

Successful graduates of the Welding Technology curriculum may be employed as entry-level technicians in welding and metalworking industries. Career opportunities also exist in construction, manufacturing, fabrication, sales, quality control, supervision, and welding-related self-employment.

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requirements - 15 Credit Hours		-	
	ENG 111	Expository Writing	3	0	3
	ENG 113	Literature - Based Research	3	0	3
		OR			
	ENG 114	Professional Research & Reporting			
	MAT 115	Mathematical Models	2 3 3	2	3
		Humanities Elective	3	0	3
		Social Science Elective	3	0	3
11.	Required Core	Courses - 18 Credit Hours			
	WLD 110	Cutting Processes	1	3	2
	WLD 115	SMAW (stick) Plate	2	3 9	2 5 4 4 3
	WLD 121	GMAW (MIG) FCAW/Plate	2 2 2	6	4
	WLD 131	GTAW (TIG) Plate	2	6	4
	WLD 141	Symbols and Specifications	2	2	3
III.	Other Major	Required Courses - 35 Credit Hours			
	BPR 111	Blueprint Reading	1	2	2
	BPR 121	Blueprint Reading: Mechanical	1	2 2 2	2 3 4 3 3 2
	CIS 110	Introduction to Computers	2	2	3
	WLD 116	SMAW (Stick) Plate/Pipe	1	9	4
	WLD 122	GMAW (MIG) Plate/Pipe	1	6	3
	WLD 132	GTAW (TIG) Plate/Pipe	1	6	3
	WLD 143	Welding Metallurgy	1	2	2
	WLD 151	Fabrication I	2	6	
	WLD 215	SMAW (Stick) Pipe	1	9	4 4 2 3 3
	WLD 261	Certification Practices	1	3	2
	WLD 262	Inspection and Testing	2	2	3
	WOL 110	Basic Construction Skills	2	3	3
IV.	Other Requi	red Hours - 1 Credit Hour			
	ACA 115	Success & Study Skills	0	2	1
Tota	l Required Hour	s			69

Welding Technology - Diploma (D 50 42 0)

			Class Hours	Lab Hours	Credit Hours
I.	General Edu	cation Requirements - 6 Credit Hours	210000	230440	
**	ENG 101	Applied Communications I	3	0	3
	MAT 101	Applied Mathematics I	3 2	2	3
п.	Required Co	re Courses - 18 Credit Hours			
	WLD 110	Cutting Processes	. 1	3	2
	WLD 115	SMAW (stick) Plate	2	9	5
	WLD 121	GMAW (MIG) FCAW/Plate	2	6	4
	WLD 131	GTAW (TIG) Plate	2 2 2 2	6 6 2	4
	WLD 141	Symbols and Specifications	2	2	2 5 4 4 3
III.	Other Major Required Courses - 21 Credit Hours				
	BPR 111	Blueprint Reading	1	2	2
	BPR 121	Blueprint Reading: Mechanical	1	2 2 9	2
	WLD 116	SMAW (Stick) Plate/Pipe	1	9	4
	WLD 122	GMAW (MIG) Plate/Pipe	1	6	2 2 4 3 3
	WLD 132	GTAW (TIG) Plate/Pipe	1	6	3
	WLD 151	Fabrication I	2 2	6	4
	WOL 110	Basic Construction Skills	2	3	3
Total	Required Hour	Linux contra transaction on contract			45

Welding Technology - Certificate (C 50 42 0)

		Class	Lab	Credit
		Hours	Hours	Hours
WLD 110	Cutting Processes	1	3	2
WLD 115	SMAW (stick) Plate	2	9	5
WLD 121	GMAW (MIG) FCAW/Plate	2	6	4
WLD 131	GTAW (TIG) Plate	2	6	4
Total Required Hours				15

COURSE DESCRIPTIONS

The courses listed on the following pages represent the current curriculum offerings in Arts and Sciences, Business Sciences, and Applied Sciences and Technology.

- 1. The courses are listed in alphabetical order by a 3-letter subject (example BUS for business; ANT for anthropology).
- The courses are assigned a 3-digit number (example ACA 115)
- 3. Any course number less than 100 will not earn credit hours toward graduation.
- 4. The course title follows the number (example ACA 115 Success & Study Skills)
- 5. The number of contact and credit hours follow the title (example ACA 115 Success & Study Skills 0 2 1). The first number represents the number of lecture hours per week; the second represents the number of lab, shop, clinical, or practicum hours per week; the last represents the number of credit hours assigned to the course.

ACADEMIC RELATED

Lab/Shop Lecture Credit

ACA 115

Success & Study Skills

Prerequisites: Corequisites:

None

This course provides an orientation to the campus resources and academic skills necessary to achieve educational objectives. Emphasis is placed on an exploration of facilities and services, study skills, library skills, self-assessment, wellness, goal-setting, and critical thinking. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals.

ACA 122

College Transfer Success

1

Prerequisites:

None

Corequisites: None

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ACCOUNTING

ACC 120 Principles of Financial Accounting

3

Prerequisites

None Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ACC 121

Principles of Managerial Accounting

2

2

Prerequisites:

ACC 120

Corequisites:

None

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ACC 129

Individual Income Taxes

3

Prerequisites:

None

Corequisites:

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.

ACC 180 Practices in Bookkeeping

Prerequisites: ACC 120 Corequisites: None

This course provides advanced instruction in bookkeeping and record-keeping functions. Emphasis is placed on mastering adjusting entries, correction of errors, depreciation, payroll, and inventory. Upon completion, students should be able to conduct all key bookkeeping functions for small business.

AIR CONDITIONING, HEATING AND REFRIGERATION

AHR 120 HVACR Maintenance

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Prerequisites: None Corequisites: None

This course introduces the basic principles of industrial air conditioning and heating systems. Emphasis is placed on preventive maintenance procedures for heating and cooling equipment and related components. Upon completion, students should be able to perform routine preventive maintenance tasks, maintain records, and assist in routine equipment repairs.

AHR 130 HVAC Controls

Prerequisites: AHR 111 or ELC 111

Corequisites: 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.

AHR 151 HVAC Duct Systems I 1 3 2

Prerequisites: None Corequisites: None

This course introduces the techniques used to lay out and fabricate duct work commonly found in HVAC systems. Emphasis is placed on the skills required to fabricate duct work. Upon completion, students should be able to lay out and fabricate simple duct work.

required to faoricate duct work. Opon completion, students should be able to lay out and faoricate simple duct work.

AHR 160 Refrigerant Certification
Prerequisites: None
Corequisites: 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.

AHR 210 Residential Building Code 1 2 2

Prerequisites: None Corequisites: None

This course covers the residential building codes that are applicable to the design and installation of HVAC systems. Topics include current residential codes as applied to HVAC design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of residential building codes that apply to specific areas of the HVAC trade.

AHR 211 Residential System Design 2 2 3

Prerequisites: None Corequisites: 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.

ALTERNATIVE ENERGY TECHNOLOGY

ALT 220 Photovoltaic System Technologies 2 3 3

Prerequisites: None Corequisites: 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.

ANTHROPOLOGY

ANT 210 General Anthropology

Prerequisites: None Corequisites: None

This course introduces the physical, archaeological, linguistic, and ethnological fields of anthropology. Topics include human origins, genetic variations, archaeology, linguistics, primatology, and contemporary cultures. Upon completion, students should be able to demonstrate an understanding of the four major fields of anthropology. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

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ANT 220 Cultural Anthropology 3 0

Prerequisites: None Corequisites: None

This course introduces the nature of human culture. Emphasis is placed on cultural theory, methods of fieldwork, and cross-cultural comparisons in the areas of ethnology, language, and the cultural past. Upon completion, students should be able to demonstrate an understanding of basic cultural processes and how cultural data are collected and analyzed. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

ARCHITECTURE

ARC 111 Introduction to Architectural Technology 1 6 3

Prerequisites: None Corequisites: None

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.

ART

ART 111 Art Appreciation 3 0 3

Prerequisites: RED 090, ENG 090 or satisfactory placement test scores (L)

Corequisites: None

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ART 118 Art by Women 3 0 3

Prerequisites: None Corequisites: None

This course provides an analytical study of the works of representative female artists. Emphasis is placed on the historical and cultural contexts, themes, and aesthetic features of individual works. Upon completion, students should be able to interpret, analyze, and discuss selected works. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ART 121 Design I 1 4 3

Prerequisites: None Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ART 131 Drawing I 0 6 3

Prerequisites: None Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ART 132

Drawing II **ART 131**

Prerequisites:

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and

ART 140

Basic Painting

2

Prerequisites: Corequisites:

None None

This course introduces the mechanics of painting. Emphasis is placed on the exploration of painting media through fundamental techniques. Upon completion, students should be able to demonstrate a basic understanding and application of painting. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ART 240

Painting I

3

Prerequisites: Corequisites:

None

None

This course introduces the language of painting and the use of various painting materials. Emphasis is placed on the understanding and use of various painting techniques, media, and color principles. Upon completion, students should be able to demonstrate competence in the use of creative processes directed toward the development of expressive form. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ART 241

Painting II

3

Prerequisites:

ART 240

Corequisites:

None

This course provides a continuing investigation of the materials, processes, and techniques of painting. Emphasis is placed on the exploration of expressive content using a variety of creative processes. Upon completion, students should be able to demonstrate competence in the expanded use of form and variety. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ASTRONOMY

AST 111

Descriptive Astronomy

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Prerequisites:

None

AST 111A Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

AST 111A

Descriptive Astronomy Lab

Prerequisites:

None

Corequisites:

AST 111

This course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

AST 151

General Astronomy I

3

Prerequisites:

MAT 070 (L)

Corequisites:

This course introduces the science of modern astronomy with a concentration on the solar system. Emphasis is placed on the history and physics of astronomy and an introduction to the solar system, including the planets, comets, and meteors. Upon completion, students should be able to demonstrate a general understanding of the solar system. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

AST 151A

General Astronomy I Lab

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None

Prerequisites: Corequisites: AST 151

The course is a laboratory to accompany AST 151. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 151 and which provide practical experience. Upon completion, students should be able to demonstrate a general understanding of the solar system. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

AST 152 General Astronomy II

Prerequisites: Corequisites

AST 151/151A

AST 152A This course is a continuation of AST 151 with primary emphasis beyond the solar system. Topics include the sun, stars, galaxies, and the larger

universe, including cosmology. Upon completion, students should be able to demonstrate a working knowledge of astronomy. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

AST 152A General Astronomy II Lab 1

Prerequisites: AST 151/151A Corequisites: AST 152

The course is a laboratory to accompany AST 152. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 152 and which provide practical experience. Upon completion, students should be able to demonstrate a working knowledge of astronomy. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

AST 251 Observational Astronomy 2

Prerequisites: AST 111 or AST 152

Corequisites:

This course covers the operation of the telescope and related observatory equipment. Emphasis is placed on the use of the telescope and related observatory equipment, including techniques of data collection, measurements, and data analysis. Upon completion, students should be able to set up a telescope and use the coordinate system to locate objects, collect data, and make measurements with the telescope. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

AUTOMOTIVE BODY REPAIR

Painting & Refinishing I **AUB 111**

Prerequisites: None Corequisites: 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.

Painting & Refinishing II **AUB 112**

Prerequisites: **AUB 111** Corequisites: 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.

AUB 114 Special Finishes 2

Prerequisites: **AUB 111** Corequisites: 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.

Non-Structural Damage I **AUB 121**

3

Prerequisites: None Corequisites: 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.

AUB 122 Non-Structural Damage II

Prerequisites: None Corequisites:

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.

AUB 131 Structural Damage I

Prerequisites: None Corequisites: 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.

AUB 132 Structural Damage II

Prerequisites: AUB 131 Corequisites: 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.

AUB 134 Autobody MIG Welding

Prerequisites: None Corequisites: 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.

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AUB 136 Plastics & Adhesives

Prerequisites: None Corequisites: 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.

AUB 141 Mechanical & Electrical Components I

Prerequisites: None Corequisites: None

This course covers the basic principles of automotive mechanical and electrical components. Topics include personal and environmental safety and suspension and steering, electrical, brake, heating and air-conditioning, cooling, drive train, and restraint systems. Upon completion, students should be able to identify system components and perform basic system diagnostic checks and/or repairs according to industry standards.

AUB 150 Automotive Detailing

Prerequisites: None Corequisites: 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.

AUB 160 Body Shop Operations

Prerequisites: None Corequisites: None

This course introduces the day-to-day operations of autobody repair facilities. Topics include work habits and ethics, customer relations, equipment types, materials cost and control, policies and procedures, shop safety and liabilities, and other related topics. Upon completion, students should be able to understand the general operating policies and procedures associated with an autobody repair facility.

AUB 162 Autobody Estimating

Prerequisites: None Corequisites: None

This course provides a comprehensive study of autobody estimating. Topics include collision damage analysis, industry regulations, flat-rate and estimated time, and collision estimating manuals. Upon completion, students should be able to prepare and interpret a damage report.

BANKING AND FINANCE

BAF 110 Principles of Banking

Prerequisites: None Corequisites: None

This course covers the fundamentals of bank functions in a descriptive fashion. Topics include banks and the monetary system, the relationship of banks to depositors, the payment functions, bank loans and accounting, regulations, and examinations. Upon completion, students should be able to demonstrate an understanding of the business of banking from a broad perspective.

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BAF 131 Fundamentals of Bank Lending

Prerequisites: ACC 120 Corequisites: None

This course introduces the basic knowledge and skills needed to be an effective lender. Topics include the functions of the loan interview and credit investigation, the "C"s of credit, elements of loan documentation, and warning signs of problem loans. Upon completion, students should be able to demonstrate an understanding of the credit functions and regulatory issues affecting this key banking function. This course is a unique concentration requirement of the Banking and Finance concentration in the Business Administration program.

BAF 141 Law & Banking: Principles

Prerequisites: None Corequisites: None

This course provides an overview of the legal aspects of banking and the legal framework within which banks function. Topics include the court system, consumer protection, tangible and intangible property ownership, and the legalities and regulations of bank transactions. Upon completion, students should be able to discuss the non-technical aspects of the legal system and how these affect the bank's organization and operation. This course is a unique concentration requirement of the Banking and Finance concentration in the Business Administration program.

BAF 222 Money and Banking

Prerequisites: None Corequisites: None

This course provides a fundamental treatment of how money and banks function in the US and world economies. Topics include the roles of money in the US economy, the functions of the Federal Reserve Board, and the workings of monetary and fiscal policies. Upon completion, students should be able to explain how the monetary economy functions, how banks are creators of money, and the impact of the Federal Reserve. This course is a unique concentration requirement of the Banking and Finance concentration in the Business Administration program.

BIOLOGY

BIO 110 Principles of Biology

Prerequisites: None Corequisites: None

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, 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. Under the Comprehensive Articulation Agreement, this course satisfies the general education Natural Science requirement for the AA and AFA degrees. It does not satisfy the general education Natural Science requirement for the AS degree.

BIO 111 General Biology I

Prerequisites: RED 090, ENG 090 or satisfactory placement test scores (L)

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

BIO 112 General Biology II

Prerequisites: BIO 111 Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

BIO 120 Introductory Botany

Prerequisites: BIO 111 Corequisites: None

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants. This course is intended for all Associate degree programs.

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BIO 140 Environmental Biology

Prerequisites: None Corequisites: BIO 140A

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

BIO 140A Environmental Biology Lab

Prerequisites: None Corequisites: 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 is intended for all Associate degree programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

BIO 155 Nutrition

Prerequisites: None Corequisites: None

This course covers the biochemistry of foods and nutrients with consideration of the physiological effects of specialized diets for specific biological needs. Topics include cultural, religious, and economic factors that influence a person's acceptance of food as well as nutrient requirements of the various life stages. Upon completion, students should be able to identify the functions and sources of nutrients, the mechanisms of digestion, and the nutritional requirements of all age groups. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

BIO 163 Basic Anatomy and Physiology

Prerequisites: Reading 90 or satisfactory placement test scores in reading (L)

Corequisites: 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 is designed for certificate and diploma programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

BIO 168 Anatomy and Physiology I

Prerequisites: RED 090 (L)

Corequisites: 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 relationships. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

BIO 169 Anatomy and Physiology II

Prerequisites: BIO 168 Corequisites: None

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

BIO 175

General Microbiology

BIO 110, BIO 111, BIO 163, BIO 165, or BIO 169

Prerequisites: Corequisites:

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 is intended for AAS degree programs.

BIO 275

Microbiology

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Prerequisites:

BIO 110, 111, BIO 112, BIO 163, BIO 165, or BIO 168

Corequisites:

This course covers principles of microbiology and the impact these organisms have on man the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, mircobial 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

BLUEPRINT READING

BPR 111

Blueprint Reading

2

Prerequisites:

None

Corequisites: None

This course introduces the basic principles of blueprint reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic blueprints and visualize the features of a part.

BPR 121

Blueprint Reading: Mechanical

2

Prerequisites:

BPR 111 or MAC 131

Corequisites:

This course covers the interpretation of intermediate blueprints. Topics include tolerancing, auxiliary views, sectional views, and assembly drawings. Upon completion, students should be able to read and interpret a mechanical working drawing.

BPR 130

Blueprint Reading: Construction

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Prerequisites:

Corequisites: None

This course covers the interpretation of blueprints and specifications that are associated with the construction trades. Emphasis is placed on interpretation of details for foundations, floor plans, elevations, and schedules. Upon completion, students should be able to read and interpret a set of construction blueprints.

BROADCAST PRODUCTION

BPT 110

Introduction to Broadcasting

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Prerequisites:

None

Corequisites: None

This course introduces the field of broadcasting and other electronic media. Emphasis is placed on the history, development, and current status of radio, television, and related industries. Upon completion, students should be able to demonstrate knowledge of regulations, organizational structure, revenue sources, historical development, and on-going operation of broadcasting and related industries.

BPT 111

Broadcast Law & Ethics

Prerequisites:

None None

Corequisites:

This course covers judicial, legislative, and administrative policies pertinent to the ethical and legal operation of broadcast and other electronic media organizations. Emphasis is placed on legal and ethical issues including First Amendment protection, FCC regulations, copyright, and libel laws. Upon completion, students should be able to demonstrate an understanding of the historical significance and modern-day application of important broadcast laws and policies.

BPT 112

Broadcast Writing

Prerequisites: Corequisites:

None

None This course introduces proper copy and script writing techniques and formats for radio, television, and other electronic media. Emphasis is placed on creating effective scripts for programs and promotional materials, including commercial and public radio service announcements for a specific target audience. Upon completion, students should be able to understand and write copy and scripts according to standard industry formats.

BPT 113 Broadcast Sales

Prerequisites: None Corequisites: None

This course covers sales principles applicable to radio, television, cable, and other electronic media. Emphasis is placed on prospecting and servicing accounts, developing clients, and preparing sales presentations. Upon completion, students should be able to create a sales presentation based upon standard ratings reports, prospect for new customers, and understand account management.

BPT 115 Public Relations

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Prerequisites: None Corequisites: None

This course introduces the art and science of analyzing trends, predicting their consequences, counseling organizations, and implementing actions to serve organizational and public interests. Emphasis is placed on identifying public needs, conducting and analyzing research, writing and communicating information, maintaining media relations, and creating an organizational crisis plan. Upon completion, students should be able to summarize public relations history, conduct research, develop press releases, create printed material, and formulate a crisis plan.

BPT 121 Broadcast Speech I

2 3 3

Prerequisites: None Corequisites: None

This course covers basic preparation and performance of on-air talents' speaking quality. Emphasis is placed on developing a pleasant and efficient voice with techniques applied to taped news, features, commercial copy, and announcing. Upon completion, students should be able to show improvement and aptitude in proper articulation, pronunciation, rate of delivery, pitch, breathing techniques, inflection, projection, and phrasing.

BPT 122 Broadcast Speech II

2 3 3

Prerequisites: BPT 121 Corequisites: None

This course covers basic and advanced preparation and performance of on-air speech. Emphasis is placed on enhancing a pleasant, effective voice with techniques applied to impromptu speaking, radio plays, and taped presentations. Upon completion, students should be able to employ proper articulation, pronunciation, rate of delivery, phrasing, and other voice techniques in a professional manner.

BPT 131 Audio/Radio Production I

2 6

Prerequisites: None Corequisites: None

This course covers the creation, development, production, and presentation of audio programming elements for broadcast and/or other electronic media applications. Emphasis is placed on the proper operation of professional audio equipment and the study of basic physical behavior and perceptual effects of sound. Upon completion, students should be able to correctly operate audio recording and playback equipment and demonstrate an understanding of the basic components of sound.

BPT 132 Audio/Radio Production II

2 6 4

Prerequisites: BPT 131 Corequisites: None

This course cover the use of advanced audio production techniques in broadcast and/or other electronic media applications. Topics include basic audio signal processing equipment and analog and digital professional audio recording and playback equipment. Upon completion, students should be able to optimize the use of professional audio equipment in the production of effective audio programming.

BPT 135 Radio Performance I

0 6 2

Prerequisites: None Corequisites: None

This course provides an opportunity to operate the college radio station as an announcer/board operator. Emphasis is placed on operating control-room equipment, logging transmitter readings, EBS tests, reading news, and broadcasting free of interruptions. Upon completion, students should be able to prepare music, public service announcements, and promos for timely broadcast; introduce songs/programs smoothly; and follow FCC rules.

BPT 136 Radio Performance II

0 6 2

Prerequisites: BPT 135 Corequisites: None

This course provides an opportunity to operate the college radio station as an announcer/board operator. Emphasis is placed on operating control-room equipment, logging transmitter readings, EBS tests, reading news, and broadcasting free of interruptions. Upon completion, students should be able to prepare music, public service announcements, and promos for timely broadcast; introduce songs/programs smoothly; and follow FCC rules.

BPT 137 Radio Performance III

0 6 2

Prerequisites: BPT 136 Corequisites: None

This course provides an opportunity to operate the college radio station as an announcer/board operator. Emphasis is placed on operating control-room equipment, logging transmitter readings, EBS tests, reading news, and broadcasting free of interruptions. Upon completion, students should be able to prepare music, public service announcements, and promos for timely broadcast; introduce songs/programs smoothly; and follow FCC rules.

BPT 138

Radio Performance IV

Prerequisites: **BPT 137**

Corequisites: None

This course provides an opportunity to operate the college radio station as an announcer/board operator. Emphasis is placed on operating control-room equipment, logging transmitter readings, EBS tests, reading news, and broadcasting free of interruptions. Upon completion, students should be able to prepare music, public service announcements, and promos for timely broadcast; introduce songs/programs smoothly; and follow FCC rules.

BPT 139

Radio Performance V

Prerequisites:

BPT 138

Corequisites: None

This course provides an opportunity to operate the college radio station as an announcer/board operator. Emphasis is placed on operating control-room equipment, logging transmitter readings, EBS tests, reading news, and broadcasting free of interruptions. Upon completion, students should be able to prepare music, public service announcements, and promos for timely broadcast; introduce songs/programs smoothly; and follow FCC rules.

BPT 140

Introduction to TV Systems

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Prerequisites:

Corequisites:

This course introduces technical systems that allow production, transmission, and reception of television and other video media. Emphasis is placed on identifying components and equipment, describing their function within the video chain, and troubleshooting problems within the signal flow. Upon completion, students should be able to demonstrate an understanding of components and equipment in the video chain and provide basic preventive maintenance on equipment.

BPT 210

Broadcast Management

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Prerequisites: Corequisites:

None None

This course covers management duties within the fields of broadcasting and other electronic media. Emphasis is placed on the management of broadcast stations and cable systems, including financial, personnel, news, sales, and promotion management. Upon completion, students should be able to demonstrate knowledge of successful station operation, including key management concepts and strategies.

BPT 215

Broadcast Programming

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Prerequisites: Corequisites:

None None

This course covers programming methods, research, and resources needed to provide programs for radio, television, cable, and satellite target audiences. Topics include market research and analysis; local, network, and public station programming and program sources; and scheduling procedures for electronic media. Upon completion, students should be able to develop a programming format or schedule.

BPT 220

Broadcast Marketing

3

Prerequisites: Corequisites: None

This course introduces broadcast marketing, including cultivating an audience, building an identity, and servicing customers. Topics include the use of effective promotional tools, marketing research, rating analysis, and the development of a unified marketing plan. Upon completion, students should be able to develop a broadcast marketing plan.

BPT 231

Video/TV Production I

Prerequisites: Corequisites:

None None

This course covers the language of film/video, shot composition, set design, lighting, production planning, scripting, editing, and operation of video and television production equipment. Emphasis is placed on mastering the body of knowledge and techniques followed in producing all forms of video and television production. Upon completion, students should be able to produce basic video and television productions in a team environment.

BPT 232

Video/TV Production II

Prerequisites:

BPT 231

Corequisites: None

This course covers advanced video and television production. Emphasis is placed on field production, post-production, digital video effects, graphics, and multi-camera productions. Upon completion, students should be able to create productions that optimize the use of studio, field, and post-production equipment,

BPT 235

TV Performance I

2

Prerequisites: Corequisites:

None None

This course provides hands-on experience in the operation of television studios and/or stations. Emphasis is placed on the application of skills through direct participation in the production or distribution of television programs. Upon completion, students should be able to demonstrate competence in performing key station and/or studio duties.

BPT 236 TV Performance II

Prerequisites: BPT 235 Corequisites: None

This course provides hands-on experience in the operation of television studios and/or stations. Emphasis is placed on the application of skills through direct participation in the production or distribution of television programs. Upon completion, students should be able to demonstrate competence in performing key station and/or studio duties.

BPT 237 TV Performance III 0 6

Prerequisites: BPT 236 Corequisites: None

This course provides hands-on experience in the operation of television studios and/or stations. Emphasis is placed on the application of skills through direct participation in the production or distribution of television programs. Upon completion, students should be able to demonstrate competence in performing key station and/or studio duties.

BPT 238 TV Performance IV 0 6 2

Prerequisites: BPT 237 Corequisites: None

This course provides hands-on experience in the operation of television studios and/or stations. Emphasis is placed on the application of skills through direct participation in the production or distribution of television programs. Upon completion, students should be able to demonstrate competence in performing key station and/or studio duties.

BPT 239 TV Performance V 0 6 2

Prerequisites: BPT 238 Corequisites: None

This course provides hands-on experience in the operation of television studios and/or stations. Emphasis is placed on the application of skills through direct participation in the production or distribution of television programs. Upon completion, students should be able to demonstrate competence in performing key station and/or studio duties.

BPT 241 Broadcast Journalism I 3 2 4

Prerequisites: None Corequisites: None

This course introduces broadcast journalism, including the gathering, writing, delivery, editing, and production of news stories and reports. Emphasis is placed on proper news writing skills, including the creation of good leads and complete stories in the production of radio voices and reports. Upon completion, students should be able to write broadcast news scripts and produce radio news reports and newscasts.

BPT 242 Broadcast Journalism II 3 2 4

Prerequisites: BPT 241 Corequisites: None

This course provides an opportunity to gather, write, edit, and produce broadcast news reports. Emphasis is placed on producing professional broadcast news reports, including script writing, gathering, and editing. Upon completion, students should be able to produce and record professional broadcast news stories.

BPT 250 Institutional Video 2 3 3

Prerequisites: None Corequisites: None

This course covers development and production of non-broadcast video productions for clients. Emphasis is placed on satisfying client objectives, including interviewing, research, site surveying, script review, photography, and post-production. Upon completion, students should be able to plan, write, shoot, and edit an institutional video designed to meet a client's objectives.

BPT 255 Computer-Based Production 2 3 3

Prerequisites: CIS 110 or CIS 111

Corequisites: None

This course covers digital systems used for video, audio, and multimedia production. Emphasis is placed on computer-based tools integrating digital production with analog broadcast-related production. Upon completion, students should be able to understand and operate basic tools for video graphics, video capture, multimedia authoring, sound capture, and digital audio production.

BPT 260 Multi-Track Recording 2 2 3

Prerequisites: BPT 132 Corequisites: None

This course covers the application of audio production techniques in a multi-track recording setting. Emphasis is placed on proper use of control room equipment and mix-down of multiple sound sources on both analog and digital recorders. Upon completion, students should be able to produce creative music or supplemental works using sound engineering techniques.

BUSINESS

BUS 110 Introduction to Business

Prerequisites: None Corequisites: None

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

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BUS 115 Business Law I 3 0 3

Prerequisites: None Corequisites: None

This course introduces the ethics and legal framework of business. Emphasis is placed on contracts, negotiable instruments, Uniform Commercial Code, and the working of the court systems. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

BUS 121 Business Math 2 2 3

Prerequisites: MAT 060 (L) Corequisites: None

This course covers fundamental mathematical operations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts to business.

BUS 137 Principles of Management 3 0 3

Prerequisites: None Corequisites: None

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

BUS 139 Entrepreneurship I 3 0 3

Prerequisites: None Corequisites: None

This course provides an introduction to the principles of entrepreneurship. Topics include self-analysis of entrepreneurship readiness, the role of entrepreneur in economic development, legal problems, organizational structure, sources of financing, budgeting, and cash flow. Upon completion, students should have an understanding of the entrepreneurial process and issues faced by entrepreneurs.

BUS 153 Human Resource Management 3 0 3

Prerequisites: None Corequisites: None

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.

BUS 225 Business Finance 2 2 3

Prerequisites: ACC 120 Corequisites: None

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management.

BUS 230 Small Business Management 3 0 3

Prerequisites: None Corequisites: None

This course introduces the challenges of entrepreneurship including the startup and operation of a small business. Topics include market research techniques, feasibility studies, site analysis, financing alternatives, and managerial decision making. Upon completion, students should be able to develop a small business plan.

BUS 253 Leadership and Management Skills

Prerequisites: Corequisites:

None

This course includes a study of the qualities, behaviors, and personal styles exhibited by leaders. Emphasis is placed on coaching, counseling, team building, and employee involvement. Upon completion, students should be able to identify and exhibit the behaviors needed for organizational effectiveness.

BUS 255 Organizational Behavior in Business

Prerequisites: None Corequisites: None

This course covers the impact of different management practices and leadership styles on worker satisfaction and morale, organizational effectiveness, productivity, and profitability. Topics include a discussion of formal and informal organizations, group dynamics, motivation, and managing conflict and change. Upon completion, students should be able to analyze different types of interpersonal situations and determine an appropriate course of action.

BUS 260 Business Communication 3 3

Prerequisites:

ENG 111; OST 131 or CIS 110 (L)

Corequisites: 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.

BUS 280

REAL Small Business

Prerequisites: None None Corequisites:

This course introduces hands-on techniques and procedures for planning and opeing 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, student should be able to write and implement a viable business plan and seek funding.

CABINETMAKING

CAB 110 Shop Operations 3 3

Prerequisites: None Corequisites: None

This course covers establishing and maintaining a custom cabinet shop. Topics include financing, equipment acquisition, maintenance, inventory techniques, OSHA requirements, shop organization, and safety and delivery systems. Upon completion, students should be able to organize and maintain a custom cabinet business.

CAB 111 Cabinetmaking I

Prerequisites: None Corequisites: None

This course introduces wood technology, materials, purchasing, estimating, design considerations, and cabinet construction. Topics include wood identification and use, hand tools, safe machine operation, glue and clamping, abrasives, wood joinery, kitchen and bath layout, laminates, and finishing techniques. Upon completion, students should be able to select and process materials; make sound production decisions; and design, lay out, construct, and install cabinets.

CAB 112 Cabinetmaking II 12

Prerequisites: CAB 111

Corequisites:

This course uses previously learned skills in the design and construction of furniture, European cabinetry, and special cabinet requirements. Topics include furniture repair, wood carving, inlaying, veneering, and millwork products. Upon completion, students should be able to design and construct a piece of furniture, repair defects, and understand the foundation of the 32 mm system.

CAB 113 Cabinetmaking III

Prerequisites: CAB 112 Corequisites: None

This course provides an opportunity to construct a cabinetmaking project. Emphasis is placed on following construction plans, quality construction, and efficient use of time and materials. Upon completion, students should be able to plan and construct an item of furniture and/or set of cabinets.

CARPENTRY

CAR 110 Introduction to Carpentry 2 2

Prerequisites: None Corequisites: None

This course introduces the student to the carpentry trade. Topics include duties of a carpenter, hand and power tools, building materials, construction methods, and safety. Upon completion, students should be able to identify hand and power tools, common building materials, and basic construction methods.

CAR 111 Carpentry I

Prerequisites: None Corequisites: None

This course introduces the theory and construction methods associated with the building industry, including framing, materials, tools, and equipment. Topics include safety, hand/power tool use, site preparation, measurement and layout, footings and foundations, construction framing, and other related topics. Upon completion, students should be able to safely lay out and perform basic framing skills with supervision.

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CAR 112 Carpentry II

Prerequisites: CAR 111 Corequisites: None

This course covers the advanced theory and construction methods associated with the building industry including framing and exterior finishes. Topics include safety, hand/power tool use, measurement and layout, construction framing, exterior trim and finish, and other related topics. Upon completion, students should be able to safely frame and apply exterior finishes to a residential building with supervision.

CAR 113 Carpentry III

Prerequisites: CAR 111 Corequisites: None

This course covers interior trim and finishes. Topics include safety, hand/power tool use, measurement and layout, specialty framing, interior trim and finishes, cabinetry, and other related topics. Upon completion, students should be able to safely install various interior trim and finishes in a residential building with supervision.

CAR 114 Residential Building Codes

Prerequisites: None Corequisites: None

This course covers building codes and the requirements of state and local construction regulations. Emphasis is placed on the minimum requirements of the North Carolina building codes related to residential structures. Upon completion, students should be able to determine if a structure is in compliance with North Carolina building codes.

CAR 115 Residential Planning/Estimating

Prerequisites: BPR 130 Corequisites: None

This course covers project planning, management, and estimating for residential or light commercial buildings. Topics include planning and scheduling, interpretation of working drawings and specifications, estimating practices, and other related topics. Upon completion, students should be able to perform quantity take-offs and cost estimates.

CAR 116 Metal Framing

Prerequisites: None Corequisites: None

This course covers basic metal framing associated with residential and light construction. Topics include methods and procedures for framing floor, wall, and roof sections and other related topics. Upon completion, students should be able to properly install various metal framing components.

CAR 150 Concrete Construction

Prerequisites: None Corequisites: None

This course covers methods of erecting forms and placing concrete. Topics include safety, hand/power tool use, blueprints, rigging, form construction, reinforcement, and placement. Upon completion students should be able to demonstrate skills in concrete construction procedures and processes with supervision.

COMPUTER ENGINEERING TECHNOLOGY

CET 111 Computer Upgrade/Repair I

Prerequisites: None Co-requisites: None

This course covers repairing, servicing, and upgrading computers and peripherals in preparation for industry certification. Topics include CPU/memory/bus identification, disk subsystems, hardware/software installation/configuration, common device drivers, data recovery, system maintenance, and other related topics. Upon completion, students should be able to safely repair and/or upgrade computer systems to perform within specifications.

CET 161 Procedural Programming

Prerequisites: None Co-requisites: None

This course introduces procedural computer programming for Engineering applications. Emphasis is placed on event-driven programming methods, including creating and manipulating data, sequencing, iteration, and blocking of code. Upon completion, students should be able to design, code, test and debug at a beginning level.

CET 172 Internet Technologies

Prerequisites: None Corequisites: None

The goal of this course is to provide an introduction to Internet technologies and prepare students to pass vendor independent internet technology certification exams. Topics cover using different Internet protocols, programming on the Internet, the OSI model, the Internet infrastructure, security, and e-commerce. Upon completion, students should be prepared to take vendor independent Internet technology certification exams.

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CET 211 Computer Upgrade/Repair II

Prerequisites: None Co-requisites: None

This course covers concepts of repair service, and upgrade of computers and peripherals in preparation for industry certification. Topics may include resolving resource conflicts and system bus specifications, configuration and troubleshooting peripherals, operating system configuration and optimization, and other related topics. Upon completion, students should be able to identify and resolve system conflicts and optimize system performance.

CHEMISTRY

Prerequisites:

CHM 131 Introduction to Chemistry

MAT 070 or satisfactory placement test scores (L)

Corequisites: CHM 131A

This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demostrate a basic understanding of chemistry as it applies to other fields. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

CHM 131A Introduction to Chemistry Laboratory

Prerequisites: MAT 070 or satisfactory placement test scores (L)

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

CHM 132 Organic and Biochemistry

Prerequisites: CHM 131 & 131A or CHM 151

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

CHM 151 General Chemistry I

Prerequisites: MAT 80 or satisfactory placement test scores (L)

Corequisites: 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/mathematics.

CHM 152 General Chemistry II

Prerequisites: CHM 151 Corequisites: 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 complexions. 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

CHM 251 Organic Chemistry I

Prerequisites: CHM 152 Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

CHM 252 Organic Chemistry II

ic Chemistry II

Prerequisites: CHM 251 Corequisites: None

This course provides continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multistep synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of organic concepts as needed to pursue further study in chemistry and related professional fields. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

CHM 261 Quantitative Analysis

Prerequisites: CHM 152 Corequisites: None

This course introduces classical methods of chemical analysis with an emphasis on laboratory techniques. Topics include statistical data treatment; stoichiometric and equilibrium calculations; and titrimetric, gravimetric, acid-base, oxidation-reduction, and compleximetric methods. Upon completion, students should be able to perform classical quantitative analytical procedures. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

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CHM 271 Biochemical Principles

Prerequisites: CHM 252 Corequisites: CHM 271A

The course covers fundamental principles of biochemistry. Topics include structures, properties, reactions, and mechanisms of biomacromolecules including amino acids, peptides, proteins, carbohydrates and nucleic acids, enzymatic metabolic pathways, and biochemical genetics. Upon completion, students should be able to demonstrate an understanding of fundamental biochemical processes. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

CHM 271A Biochemical Principles Laboratory

Prerequisites: CHM 252 Corequisites: CHM 271

This course is a laboratory for CHM 271. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 271. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 271. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

INFORMATION SYSTEMS

CIS 110 Introduction to Computers

Prerequisites: None Corequisites: None

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

CIS 115 Introduction to Programming & Logic

Take One Set: Set 1: MAT-060* and MAT-070; Set 2: MAT-060* and MAT-080;

Set 3: MAT-060* and MAT-090; Set 4: MAT-095; Set 5: MAT-120; Set 6: MAT-121

Set 7: MAT-161; Set 8: MAT-171; Set 9: MAT-175

Corequisites: None

Prerequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

CIS 165

Desktop Publishing I

Prerequisites:

OST 136 or proficiency in word processing

Corequisites:

None

This course provides an introduction to desktop publishing software capabilities. Emphasis is placed on efficient use of a page layout software package to create, design, and print publications; hardware/software compatibility; and integration of specialized peripherals. Upon completion, students should be able to prepare publications given design specifications.

CRIMINAL JUSTICE

CJC 100

Basic Law Enforcement Training

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Prerequisites: Corequisites: None 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.

CJC 111

Introduction to Criminal Justice

3

Prerequisites:

None

Corequisites: None

This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

CJC 112

Criminology

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Prerequisites:

None

Corequisites: None

This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.

CJC 113

Juvenile Justice

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Prerequisites:

None

Corequisites: None

This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.

CJC 120

Interviews/Interrogations

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Prerequisites:

None

Corequisites:

None

This course covers basic and special techniques employed in criminal justice interviews and interrogations. Emphasis is placed on the interview/interrogation process, including interpretation of verbal and physical behavior and legal perspectives. Upon completion, students should be able to conduct interviews/interrogations in a legal, efficient, and professional manner and obtain the truth from suspects, witnesses, and victims.

CJC 121

Law Enforcement Operations

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Prerequisites:

None

Corequisites:

None

This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

CJC 122

Community Policing

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Prerequisites:

None

Corequisites: None

This course covers the historical, philosophical, and practical dimensions of community policing. Emphasis is placed on the empowerment of police and the community to find solutions to problems by forming partnerships. Upon completion, students should be able to define community policing, describe how community policing strategies solve problems, and compare community policing to traditional policing.

CJC 131 Criminal Law

Prerequisites: None Corequisites: None

This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.

CJC 132 Court Procedure & Evidence

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Prerequisites: None Corequisites: None

This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence.

CJC 141 Corrections

Prerequisites: None Corequisites: None

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

CJC 212 Ethics & Community Relations

Prerequisites: None Corequisites: None

This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.

CJC 214 Victimology

Prerequisites: None Corequisites: None

This course introduces the study of victims. Emphasis is placed on roles/characteristics of victims, victim interaction with the criminal justice system and society, current victim assistance programs, and other related topics. Upon completion, students should be able to discuss and identify victims, the uniqueness of victims' roles, and current victim assistance programs.

CJC 215 Organization & Administration

Prerequisites: None Corequisites: None

This course introduces the components and functions of organization and administration as it applies to the agencies of the criminal justice system. Topics include operations/functions of organizations; recruiting, training, and retention of personnel; funding and budgeting; communications; span of control and discretion; and other related topics. Upon completion, students should be able to identify and discuss the basic components and functions of a criminal justice organization and its administrative operations.

CJC 221 Investigative Principles

Prerequisites: None Corequisites: None

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.

CJC 222 Criminalistics

Prerequisites: None Corequisites: None

This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.

CJC 223 Organized Crime

Prerequisites: Corequisites:

None This course introduces the evolution of traditional and non-traditional organized crime and its effect on society and the criminal justice system.

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Topics include identifying individuals and groups involved in organized crime, areas of criminal activity, legal and political responses to organized crime, and other related topics. Upon completion, students should be able to identify the groups and activities involved in organized crime and

the responses of the criminal justice system.

CJC 225 Crisis Intervention Prerequisites: None

Corequisites: 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.

CJC 231 Constitutional Law

Prerequisites: None Corequisites: None

The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.

CJC 232 Civil Liability

Prerequisites: None Corequisites: None

This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues.

CONSTRUCTION MANAGEMENT

CMT 210 Professional Construction Supervision

Prerequisites: None Corequisites: None

This course introduces the student to the fundamentals of effective supervision emphasizing professionalism through knowledge and applied skills. Topics include safety, planning and scheduling, contracts, problem-solving, communications, conflict resolution, recruitment, employment laws and regulations, leadership, motivation, teamwork, discipline, setting objectives, and training. Upon completion, the student should be able to demonstrate the basic skills necessary to be successful as a supervisor in the construction industry.

COOPERATIVE EDUCATION

COE 110 World of Work

Prerequisites: None

None Corequisites:

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.

Co-op Work Experience I COE 111

Prerequisites: None

Corequisites: 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.

COE 115 Work Experience Seminar I

Prerequisites: None

COE 111, COE 112, COE 113, or COE 114 Corequisites:

Theories, techniques, and methods observed in the work settings will be discussed. Students will integrate ideas related in course work and practicum situations. This course is designed to coordinate the classroom and industry experience. The practicum correlating with the seminar must be taken the same term.

COE 121 Co-op Work Experience II

Prerequisites: None Corequisites: 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.

COMMUNICATION

COM 231 Public Speaking

Prerequisites: None Corequisites: None

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

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COSMETOLOGY

COS 111 Cosmetology Concepts I

Prerequisites: None Corequisites: COS 112

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting.

COS 112 Salon I

Prerequisites: None Corequisites: 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.

COS 113 Cosmetology Concepts II

Prerequisites: None Corequisites: COS 114

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

COS 114 Salon II

Prerequisites: None Corequisites: 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.

COS 115 Cosmetology Concepts III

Prerequisites: None Corequisites: COS 11

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.

COS 116 Salon III

Prerequisites: None Corequisites: 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.

COS 117 Cosmetology Concepts IV

Prerequisites: None

Corequisites: COS 118

This course covers advanced cosmetology concepts. Topics include chemistry and hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

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COS 118 Salon IV

Prerequisites: None Corequisites: 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.

COS 119 Esthetics Concepts I

Prerequisites: None Corequisites: None

This course covers the concepts of esthetics. Topics include orientation, anatomy, physiology, hygiene, sterilization, first aid, chemistry, basic dermatology, and professional ethics. Upon completion, students should be able to demonstrate an understanding of the concepts of esthetics and meet course requirements.

COS 120 Esthetics Salon I

Prerequisites: None Corequisites: None

This course covers the techniques of esthetics in a comprehensive experience in a simulated salon setting. Topics include client consultation, facials, body treatments, hair removal, make-up applications, and color analysis. Upon completion, students should be able to safely and competently demonstrate esthetic services on clients in a salon setting.

COS 121 Manicure/Nail Technology I

Prerequisites: None Corequisites: None

This course covers techniques of nail technology, hand and arm massage, and recognition of nail diseases and disorders. Topics include OSHA/safety, sanitation, bacteriology, product knowledge, salesmanship, manicures, artificial applications, pedicures, massage, and other related topics. Upon completion, students should be able to safely and competently perform nail care, including manicures, pedicures, massage, decorating, and artificial applications in a salon setting.

COS 125 Esthetics Concepts II

Prerequisites: None Corequisites: None

This course covers more comprehensive esthetics concepts. Topics include nutrition, business management, makeup, and color analysis. Upon completion students should be able to demonstrate an understanding of the advanced esthetics concepts and meet course requirements.

COS 126 Esthetics Salon II

Prerequisites: None Corequisites: None

This course provides experience in a simulated esthetics setting. Topics include machine facials, aromatherapy, massage therapy, electricity, and apparatus. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology licensing examination for Estheticians.

COS 222 Manicure/Nail Technology II

Prerequisites: COS 121 Corequisites: None

This course covers advanced techniques of nail technology and hand and arm massage. Topics include OSHA/safety, product knowledge, customer service, salesmanship, artificial applications, nail art, and other related topics. Upon completion, students should be able to demonstrate competence necessary for the licensing examination, including advanced nail care, artificial enhancements, and decorations.

COS 223 Contemporary Hair Coloring

Prerequisites: COS 111 and COS 112

Corequisites: None

This course covers basic color concepts, hair coloring problems, and application techniques. Topics include color theory, terminology, contemporary techniques, product knowledge, and other related topics. Upon completion, students should be able to identify a client's color needs and safely and competently perform color applications and correct problems.

COS 224 Trichology and Chemistry

Prerequisites: None Corequisites: None

This course is a study of hair and the interaction of applied chemicals. Emphasis is placed on pH actions and the reactions and effects of chemical ingredients. Upon completion, students should be able to demonstrate an understanding of chemical terminology, pH testing, and chemical reactions on hair.

COS 225 Advanced Contemporary Hair Coloring

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Prerequisites: COS 223 Corequisites: None

This course covers advanced techniques in coloring applications and problem solving situations. Topics include removing unwanted color, replacing pigment and re-coloring, removing coating, covering gray and white hair, avoiding color fading, and poor tint results. Upon completion, students should be able to apply problem-solving techniques in hair coloring situations.

COS 240 Contemporary Design

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Prerequisites: COS 111 and COS 112

Corequisites: None

This course covers methods and techniques for contemporary designs. Emphasis is placed on contemporary designs and other related topics. Upon completion, students should be able to demonstrate and apply techniques associated with contemporary design.

COS 251 Manicure Instructor Concepts

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Prerequisites: None Corequisites: None

This course introduces manicuring instructional concepts. Topics include orientation, theories of education, unit planning, daily lesson planning, laboratory management, student assessment, record keeping, and other related topics. Upon completion, students should be able to identify theories of education, develop lesson plans, demonstrate supervision techniques, and assess student classroom performance.

COS 252 Manicure Instructor Practicum

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Prerequisites: None Corequisites: COS 251

This course covers supervisory and instructional skills for teaching manicuring students in a laboratory setting. Topics include demonstrations of services, supervision, student assessment, and other related topics. Upon completion, students should be able to demonstrate competence in the areas covered by the Manicuring Instructor Licensing Examination and meet program completion requirements.

COS 253 Esthetics Instructor Concepts I

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Prerequisites: None Corequisites: None

This course introduces esthetic instructional concepts and skills. Topics include orientation, theories of education, unit planning, daily lesson plans, laboratory management, student assessment in a laboratory setting. Upon completion, students should be able to demonstrate esthetic services and instruct and objectively assess student performance in a classroom setting.

COS 254 Esthetics Instructor Concepts II

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Prerequisites: None Corequisites: None

This course covers advanced esthetic instructional concepts and skills. Topics include practical demonstrations, lesson planning, lecture techniques, development and administration of assessment tools, record keeping and other related topics. Upon completion, students should be able to demonstrate competencies in the areas covered by the Esthetics Instructor Licensing Examination and meet program requirements.

COS 271 Instructor Concepts I

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Prerequisites: None Corequisites: COS 272

This course introduces the basic cosmetology instructional concepts. Topics include orientation, theories of education, unit planning, daily lesson planning, laboratory management, student assessment, record keeping, and other related topics. Upon completion, students should be able to identify theories of education, develop lesson plans, demonstrate supervisory techniques, and assess student performance in a classroom setting.

COS 272 Instructor Practicum I

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Prerequisites: None Corequisites: COS 271

This course covers supervisory and instructional skills for teaching entry-level cosmetology students in a laboratory setting. Topics include demonstrations of services, supervision, and entry-level student assessment. Upon completion, students should be able to demonstrate salon services and instruct and objectively assess the entry-level student.

COS 273 Instructor Concepts II

Prerequisites:

COS 271 and COS 272

Corequisites:

COS 274

This course covers advanced cosmetology instructional concepts. Topics include practical demonstrations, lesson planning, lecture techniques, development and administration of assessment tools, record keeping, and other related topics. Upon completion, students should be able to develop lesson plans, demonstrate supervision techniques, assess student performance in a classroom setting, and keep accurate records.

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Instructor Practicum II

Prerequisites: COS 271 and COS 272

COS 273 Corequisites:

This course is designed to develop supervisory and instructional skills for teaching advanced cosmetology students in a laboratory setting. Topics include practical demonstrations, supervision, and advanced student assessment. Upon completion, students should be able to demonstrate competence in the areas covered by the Instructor Licensing Examination and meet program completion requirements.

COMPUTER SCIENCE

CSC 134 C++ Programming

CIS 115 or ELN 232 & MAT 070 (L)

Corequisites: None

Prerequisites:

This course introduces computer programming using the C++ programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

CSC 139 Visual BASIC Programming

CIS 115 or ELN 232 & MAT 070 (L) Prerequisites:

Corequisites:

This course introduces event-driven computer programming using the Visual BASIC programming language. Topics include input/output operations, sequence, selection, iteration, arithmetic operations, arrays, forms, sequential files, and other related topics. Upon completion, students should be able to design, code, test, and debug Visual BASIC language programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

Advanced C++ Programming CSC 234

CSC 134 Prerequisites:

Corequisites: None

This course is a continuation of CSC 134 using C++ with structured programming principles. Emphasis is placed on advanced arrays/tables, file management/processing techniques, data structures, sub-programs, interactive processing, sort/merge routines, and libraries. Upon completion, students should be able to design, code, test, debug, and document programming solutions.

Advanced Visual BASIC Programming CSC 239

Prerequisites:

Corequisites: None

This course is a continuation of CSC 139 using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment.

CSC 289 Programming Capstone Project

Prerequisites: CTS 285

Corequisites: None

This course provides an opportunity to complete a significant programming project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete a project from the definition phase through implementation.

CONSTRUCTION

CST 131 OSHA/Safety/Certification

Prerequisites: None Corequisites:

This course covers the concepts of work site safety. Topics include OSHA regulations, tool safety, and certifications which relate to the construction industry. Upon completion, students should be able to identify and maintain a safe working environment based on OSHA regulations and maintain proper records and certifications.

CST 211 Construction Surveying

Prerequisites: MAT 115, MAT 120, MAT 121, MAT 161, MAT 171 or MAT 175

Corequisites: None

This course covers field surveying applications for residential and commercial construction. Topics include building layout and leveling, linear measurement and turning angles, plumbing vertical members, and topographic and utilities surveys. Upon completion, students should be able to properly and accurately use surveying equipment to lay out residential and commercial buildings.

CST 221 Statics/Structures

Prerequisites: MAT 115, MAT 120, MAT 121, MAT 161, MAT 171,

or MAT 175 and ARC 112 or CAR 112 or CST 112

Corequisites: None

This course covers the principles of statics and strength of materials as applied to structural building components. Topics include forces on columns, beams, girders, and footings and connection points when timber, steel, and concrete members are used. Upon completion, students should be able to accurately analyze load conditions present in structural members.

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CST 241 Planning/Estimating I

Prerequisites: BPR 130 or MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175

Corequisites: None

This course covers the procedures involved in planning and estimating a residential structure. Topics include labor and equipment with emphasis placed on quantity take-off of materials necessary to construct a residential structure. Upon completion, students should be able to accurately complete a take-off of materials and equipment needs and plan the labor to construct a residential structure.

CST 242 Planning/Estimating II

Prerequisites: CST 241 Corequisites: None

This course covers planning and estimating practices which are applicable to commercial construction. Emphasis is placed on planning and developing take-offs of materials, labor, and equipment in accordance with industry formats. Upon completion, students should be able to accurately complete take-offs and planning time lines necessary to complete a commercial structure.

CST 244 Sustainable Building Design

Prerequisites: None Corequisites: None

This course is designed to increase student knowledge about integrating sustainable design principles and green building technologies into mainstream residential construction practices. Emphasis is placed on reducing negative environmental impact and improving building performance, indoor air quality and the comfort of a building's occupants. Upon completion, students should be able to identify principles of green building, environmental efficiency and conservation of natural resources in relation to basic construction practices.

CST 251 Electrical Wiring Systems

Prerequisites: None Corequisites: None

This course introduces residential and commercial electrical wiring systems. Topics include safety, care and use of tools and materials, use of NEC, circuit planning, overcurrent protection, and installation of conduits, cables, and conductors. Upon completion, students should be able to correctly identify tools, materials, and procedures for electrical installation.

COMPUTER INFORMATION TECHNOLOGY

CTS 115 Information Systems Business Concept

Prerequisites: None Corequisites: None

The course introduces the role of IT in managing business processes and the need for business process and IT alignment. Emphasis is placed on industry need for understanding business challenges and developing/managing information systems to contribute to the decision making process based on these challenges. Upon completion, students should be able to demonstrate knowledge of the 'hybrid business manager' and the potential offered by new technology and systems. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

CTS 120 Hardware/Software Support

Prerequisites: CIS 110 Corequisites: None

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

CTS 125 Presentation Graphics

Prerequisites: CIS 110 Corequisites: None

This course provides hands-on experience with a graphics presentation package. Topics include terminology, effective chart usage, design and layout, integrating hardware components, and enhancing presentations with text, graphics, audio and video. Upon completion, students should be able to design and demonstrate an effective presentation.

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CTS 130 Spreadsheet

Prerequisites: CIS 110 or CIS 111 or OST 137

Corequisites: None

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.

CTS 155 Technical Support Functions

Prerequisites: None Corequisites: None

This course introduces a variety of diagnostic and instructional tools that are used to evaluate the performance of technical support technologies. Emphasis is placed on technical support management techniques and support technologies. Upon completion, students should be able to determine the best technologies to support and solve actual technical support problems.

CTS 285 Systems Analysis & Design

Prerequisites: CIS 115 Corequisites: 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.

CTS 289 System Support Project

Prerequisites: CTS 285 Corequisites: 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.

DATABASE MANAGEMENT

DBA 110 Database Concepts

Prerequisites: None Corequisites: None

This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.

DESIGN DRAFTING

DDF 211 Design Process I

Prerequisites: None Corequisites: 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.

DDF 221 Design Drafting Project

Prerequisites: DFT 111, DFT 112, and DFT 151

Corequisites: None

This course incorporates ideas from concept to final design. Topics include reverse engineering, design for manufacturability, and mock-up construction. Upon completion, students should be able to generate working drawings and models based on physical design parameters.

DRAFTING

DFT 111

Technical Drafting I

None

Prerequisites:

Corequisites: DFT 111A (Local)

This course introduces basic drafting skills, equipment, and applications. Topics include sketching, measurements, lettering, dimensioning, geometric construction, orthographic projections and pictorials drawings, sections, and auxiliary views. Upon completion, students should be able to understand and apply basic drawing principles and practices.

DFT 111A

Technical Drafting I Lab

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Prerequisites:

None

DFT 111 Corequisites

This course provides a laboratory setting to enhance basic drafting skills. Emphasis is placed on practical experiences that enhance the topics presented in DFT 111. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in DFT 111.

DFT 112

Technical Drafting II

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Prerequisites:

DFT 111

Corequisites:

DFT 112A (Local)

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.

DFT 112A

Technical Drafting II Lab

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Prerequisites:

DFT 111/111A (Local)

Corequisites **DFT 112**

This course provides a laboratory setting to enhance advanced drafting skills. Emphasis is placed on practical experiences that enhance the topics presented in DFT 112. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in DFT 112.

DFT 115

Architectural Drafting

Prerequisites:

None

Corequisites: None

This course introduces basic drafting practices used in residential and light commercial design. Topics include floor plans, foundations, details, electrical components, elevations, and dimensioning practice. Upon completion, students should be able to complete a set of working drawings for a simple structure.

DFT 121

Introduction to Geometric Dimensioning & Tolerancing

Prerequisites:

None

Corequisites: None

This course introduces basic geometric dimensioning and tolerancing principles. Topics include symbols, annotation, theory, and applications. Upon completion, students should be able to interpret and apply basic geometric dimensioning and tolerancing principles to drawings.

DFT 151

CADI

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Prerequisites:

None

Corequisites:

This course introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting. Upon completion, students should be able to produce and plot a CAD drawing.

DFT 152

CAD II

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Prerequisites: Corequisites:

None

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.

DFT 153

CAD III

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Prerequisites:

None

Corequisites: None

This course introduces advanced CAD applications, Emphasis is placed upon advanced applications of CAD skills. Upon completion, students should be able to use advanced CAD applications to generate and manage data.

DFT 154 Introduction Solid Modeling

Prerequisites: None

Corequisites: None

This course is an introduction to basic three-dimensional solid modeling and design software. Topics include basic design, creation, editing, rendering and analysis of solid models and creation of multiview drawings. Upon completion, students should be able to use design techniques to create, edit, render and generate a multiview drawing.

Pattern Design and Layout **DFT 161**

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Prerequisites: None Corequisites: None

This course covers the layout of sheet metal and pipe fittings. Topics include the development of patterns and templates for metalworking industries. Upon completion, students should be able to develop, sketch, produce, and angle layouts.

DFT 170 Engineering Graphics 2 3

Prerequisites: None Corequisites: None

This course introduces basic engineering graphics skills and applications. Topics include sketching, selection and use of current methods and tools, and the use of engineering graphics applications. Upon completion, students should be able to demonstrate an understanding of basic engineering graphics principles and practices. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

DFT 231 Jig and Fixture Design 2

Prerequisites: None Corequisites: None

This course introduces the study of jigs and fixtures. Topics include different types, components, and uses of jigs and fixtures. Upon completion, students should be able to analyze, design, and complete a set of working drawings for a jig or fixture.

DFT 254 Intermediate Solid Modeling/Rendering

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Prerequisites: **DFT 154** Corequisites: None

This course presents a continuation of basic three-dimensional solid modeling and design software. Topics include advanced study of parametric design, creation, editing, rendering and analysis of solid model assemblies, and multiview drawing generation. Upon completion, students should be able to use parametric design techniques to create and analyze the engineering design properties of a model assembly.

DRAMA

DRA 122 Oral Interpretation 3 3

Prerequisites: None None Corequisites:

This course introduces the dramatic study of literature through performance. Emphasis is placed on analysis and performance of poetry, drama, and prose fiction. Upon completion, students should be able to embody and discuss critically the speakers inherent in literature. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

ECONOMICS

ECO 251 Principles of Microeconomics 3

MAT 070 (L) Prerequisites: None Corequisites:

This course introduces economic analysis of individuals, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives. This course has been approved for transfer under the Comprehensive Articulation Agreement and the

Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

ECO 252 Principles of Macroeconomics 3

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MAT 060 (L) Prerequisites: Corequisites: None

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation

Agreement as a general education course in social/behavioral sciences.

EDUCATION

EDU 118 Principles and Practices of Instructional Assistant

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: 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.

3

EDU 119 Introduction to Early Childhood Education

Introduction to Early Childhood Education 4

Prerequisites: None Corequisites: None

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for all children. Topics include historical foundations, program types, career options, professionalism and creating inclusive environments and curriculum responsive to the needs of all children and families. Upon completion, students should be able to design career plans and develop schedules, environments and activity plans appropriate for all children.

EDU 131 Child, Family, and Community 3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course covers the development of partnerships between culturally and linguistically diverse families, children, schools and communities. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative relationships between diverse families, programs/schools, and community agencies/resources. Upon completion, students should be able to explain appropriate relationships between families, educators, and professionals that enhance development and educational experiences of all children.

EDU 144 Child Development I 3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course includes the theories of child development, needs, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. This course has been approved for transfer under the Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

EDU 145 Child Development II 3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. This course has been approved for transfer under the Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

EDU 146 Child Guidance 3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course introduces principles and practical techniques including the design of learning environments for providing developmentally appropriate guidance for all children, including those at risk. Emphasis is placed on observation skills, cultural influences, underlying causes of behavior, appropriate expectations, development of self-control and the role of communication and guidance. Upon completion, students should be able to demonstrate direct/indirect strategies for preventing problem behaviors, teaching appropriate/acceptable behaviors, negotiation, setting limits and recognizing at risk behaviors. This course has been approved for transfer under the Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

EDU 151 Creative Activities 3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course covers planning, creation and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated, meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and dramatics for all children. Upon completion, students should be able to create, adapt, implement and evaluate developmentally supportive learning materials, experiences and environments.

EDU 153 Health, Safety and Nutrition

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course covers promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations. Upon completion, students should be able to demonstrate knowledge of health, safety, and nutritional needs, safe learning environments, and adhere to state regulations.

EDU 154 Social, Emotional and Behavioral Development

3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

and (EDU 144 and EDU 145) or (PSY 244 and PSY 245)

Corequisites: None

This course covers the emotional/social development of children and the causes, expressions, prevention and management of challenging behaviors in all children. Emphasis is placed on caregiver/family/child relationships, positive emotional/social environments, developmental concerns, risk factors, and intervention strategies. Upon completion, students should be able to identify factors influencing emotional/social development, utilizing screening measures, and designing positive behavioral supports.

EDU 161 Introduction to Exceptional Children

3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course covers children with exceptionalities as life long learners within the context of the community, school and family. Emphasis is placed on inclusion, legal, social/political, environmental, and cultural issues relating to the teaching of children with exceptionalities. Upon completion, students should be able to demonstrate knowledge of identification processes, inclusive techniques, and professional practices and attitudes.

EDU 163 Classroom Management & Instruction

3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: 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.

EDU 175 Introduction to Trade and Industrial Education

0 3

3

3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course introduces the philosophy, scope, and objectives of industrial education. Topics include the development of industrial education, employment opportunities, current events, current practices, and emerging trends. Upon completion, students should be able to describe the history, identify current practices, and describe current trends in industrial education.

EDU 176 Occupational Analysis and Course Development

0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course covers the principles and techniques of analyzing occupations to select suitable competencies and teaching methods for learning activities. Topics include occupational analysis, instructional methods, competency identification, and curriculum writing. Upon completion, students should be able to identify competencies, organize instructional materials, and select appropriate instructional methods.

EDU 177 Instructional Methods

2

3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course covers instructional methods in technical education with emphasis on competency-based instruction. Topics include writing objectives, industrial methods, and determining learning styles. Upon completion, students should be able to select and demonstrate the use of a variety of instructional methods.

EDU 178 Facilities, Organization and Planning

2 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course is a study of the problems related to educational facilities planning, layout, and management. Emphasis is placed on applying basic principles to actual projects relating to specific occupational areas. Upon completion, students should be able to lay out an educational facility for an occupational area and develop a plan for the facilities.

EDU 179 Vocational Student Organization

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course covers planning and organizing vocational youth clubs by understanding the structure and operating procedures to use club activities for personal and professional growth. Topics include self-assessment to set goals, club structure, election and installation of officers, club activities, function of committees, running meetings, contest preparation, and leadership skills. Upon completion students should be able to set personal goals, outline club structure, elect and install officers.

EDU 184 Early Childhood Introduction Practicum

1 3 2

Prerequisites: (ENG 080 and RED 080) or ENG 085 and EDU 119

Corequisites: None

This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children and assisting in the implementation of developmentally appropriate activities/environments for all children; and modeling reflective/professional practices. Upon completion, students should be able to demonstrate developmentally appropriate interactions with children and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

EDU 185 Cognitive and Language Act

3 0 3

Prerequisites: (ENG 080 and RED 080) or ENG 085

Corequisites: None

This course covers methods of developing cognitive and language/communication skills in children. Emphasis is placed on planning the basic components of language and cognitive processes in developing curriculum activities. Upon completion, students should be able to identify, plan, select materials and equipment, and implement and evaluate developmentally appropriate curriculum activities.

EDU 214 Early Childhood Intermediate Practicum

9 4

Prerequisites: (ENG 090 and RED 090) or ENG 095

and EDU 119, (EDU 144 or PSY 244), EDU 146, EDU 184 (Local)

Corequisites: 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 observing children and assisting with the implementation of developmentally appropriate activities and environments for all children; modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

EDU 216 Introduction to Education

2 4

Prerequisites: RED 090 and ENG 090 or ENG 095

Corequisites: None

This course introduces the American educational system and the teaching profession. Topics include historical and philosophical foundations of education, contemporary educational trends and issues, curriculum development, and observation and participation 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement. This course is also available through the Virtual Learning Community.

EDU 221 Children with Exceptional

0 3

Prerequisites: (ENG 090 and RED 090) or ENG 095

and (EDU 144 and EDU 145) or (PSY 244 and PSY 245)

Corequisites: None

This course introduces children with exceptionalities, their families, support services, inclusive/diverse settings, and educational/family plans based on the foundations of child development. Emphasis is placed on the characteristics of exceptionalities, observation and assessment of children, strategies for adapting the learning environment, and identification of community resources. Upon completion, students should be able to recognize diverse abilities, describe the referral process, and depict collaboration with families/professionals to plan/implement, and promote best practice. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

EDU 223 Specific Learning Disability

0 3

Prerequisites: (ENG 090 and RED 090) or ENG 095

and (EDU 144 and EDU 145) or (PSY 244 and PSY 245)

Corequisites: 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.

EDU 234 Infants, Toddlers, and Twos

Prerequisites: (ENG 090 and RED 090) or ENG 095 and EDU 119

Corequisites: None

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.

EDU 247 Sensory and Physical Disability

nd Physical Disability 3 0 3

Prerequisites: (ENG 090 and RED 090) or ENG 095

and (EDU 144 and EDU 145) or (PSY 244 and PSY 245)

Corequisites: 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.

EDU 248 Developmental Delays

3 0 3

Prerequisites: (ENG 090 and RED 090) or ENG 095

and (EDU 144 and EDU 145) or (PSY 244 and PSY 245)

Corequisites: None

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.

EDU 252 Math and Science Activities

0 3

Prerequisites: (ENG 090 and RED 090) or ENG 095

Corequisites: None

This course introduces discovery experiences in math and science. Topics include concepts, facts, phenomena, and skills in each area. Upon completion, students should be able to identify, plan, select materials and equipment, and implement and evaluate developmentally appropriate curriculum materials.

EDU 254 Music and Movement for Child

1 2 2

Prerequisites: (ENG 090 and RED 090) or ENG 095

Corequisites: None

This course covers the use of music and creative movement for children. Topics include a general survey of the basic elements of music and planning, designing, and implementing music and movement experiences for creative learning. Upon completion, students should be able to use voice and various musical instruments to provide musical and movement activities for children.

EDU 259 Curriculum Planning

3 0 3

Prerequisites: (ENG 090 and RED 090) or ENG 095 and EDU 119

Corequisites: None

This course is designed to focus on curriculum planning for three to five year olds. Topics include philosophy, curriculum models, indoor and outdoor environments, scheduling, authentic assessment, and planning developmentally appropriate experiences. Upon completion, students should be able to evaluate children's development, critique curriculum, plan for individual and group needs, and assess and create quality environments.

EDU 261 Early Childhood Administration I

Prerequisites: (ENG 090 & RED 090) or ENG 095

Corequisites: EDU 119

This course introduces principles of basic programming and staffing, budgeting/financial management and marketing, and rules and regulations of diverse early childhood programs. Topics include program structure and philosophy, standards of NC child care programs, finance, funding resources, and staff and organizational management. Upon completion, students should be able to develop components of program/personnel handbooks, a program budget, and demonstrate knowledge of fundamental marketing strategies and NC standards.

EDU 262 Early Childhood Administration II

3 0 3

3

Prerequisites: (ENG 090 & RED 090) or ENG 095 and EDU 261

Corequisites: EDU 119

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.

EDU 271 Educational Technology

(ENG 090 and RED 090) or ENG 095

Corequisites:

Prerequisites:

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.

EDU 275 Effective Teaching Training 2

3

Prerequisites:

(ENG 090 and RED 090) or ENG 095

Corequisites:

This course provides specialized training using an experienced-based approach to learning. Topics include instructional preparation and presentation, student interaction, time management, learning expectations, evaluation, and curriculum principles and planning. Upon completion, students should be able to prepare and present a six-step lesson plan and demonstrate ways to improve students' time-on-task.

EDU 280 Language and Literacy Experience 3

Prerequisites:

(ENG 090 and RED 090) or ENG 095

Corequisites:

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.

EDU 281 Instructor Strategies: Reading and Writing 3

Prerequisites:

(ENG 090 and RED 090) or ENG 095

Corequisites:

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).

EDU 284 Early Childhood Capstone Practicum

Prerequisites:

(ENG 090 and RED 090) or ENG 095 and EDU 119, (EDU 144 or PSY 244),

(EDU 145 or PSY 245), EDU 146, EDU 151, EDU 184 (Local), EDU 214 (Local)

Corequisites:

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. This course is required in the student's last semester (Local).

EDU 285 Internship Experience-School Age

Prerequisites:

(ENG 090 and RED 090) or ENG 095 and (EDU 144 or PSY 244),

(EDU 145 or PSY 245), (EDU 118 or EDU 216), and EDU 163

Corequisites:

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.

EDU 289

Advanced Issues/School Age

(ENG 090 and RED 090) or ENG 095

2

Prerequisites: Corequisites:

None

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.

ENGINEERING

EGR 110 Introduction to Engineering Technology

Prerequisites: None

Corequisites: 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.

EGR 285 Design Project

0 4 2

2

Prerequisites: None Corequisites: None

This course provides the opportunity to design an instructor-approved project using previously acquired skills. Emphasis is placed on selection, proposal, design, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate projects.

ELECTRICAL

ELC 111 Introduction to Electricity

2 3

2

Prerequisites: None Corequisites: None

This course introduces the fundamental concepts of electricity and test equipment to non-electrical/electronic majors. Topics include basic DC and AC principles (voltage, resistance, current, impedance); components (resistors, inductors, and capacitors); power; and operation of test equipment. Upon completion, students should be able to construct and analyze simple DC and AC circuits using electrical test equipment.

ELC 112 DC/AC Electricity

3 6 5

Prerequisites: None Co-requisites: None

This course introduces the fundamental concepts of and computations related to DC/AC electricity. Emphasis is placed on DC/AC circuits, components, operation of test equipment; and other related topics. Upon completion, students should be able to construct, verify, troubleshoot, and repair DC/AC circuits.

ELC 113 Basic Wiring I

2 6 4

Prerequisites: None Corequisites: None

This course introduces the care/usage of tools and materials used in electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical blueprint reading; planning, layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with basic electrical installations.

ELC 114 Basic Wiring II

Prerequisites: ELC 113 (Local)

Co-requisites: None

This course provides instruction in the application of electrical tools, materials, and test equipment associated with electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with electrical installations.

ELC 115 Industrial Wiring

2 6

2

Prerequisites: None Corequisites: None

This course covers layout, planning, and installation of wiring systems in industrial facilities. Emphasis is placed on industrial wiring methods and materials. Upon completion, students should be able to install industrial systems and equipment.

ELC 117 Motors and Controls

6

Prerequisites: None Corequisites: None

This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.

ELC 118 National Electrical Code

2 2

Prerequisites: None Corequisites: None

This course covers the use of the current National Electrical Code. Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC.

ELC 119

NEC Calculations

Prerequisites:

ELC 118 (Local)

Corequisites:

None

This course covers branch circuit, feeder, and service calculations. Emphasis is placed on sections of the National Electrical Code related to calculations. Upon completion, students should be able to use appropriate code sections to size wire, conduit, and overcurrent devices for branch circuits, feeders, and service.

ELC 127 Software for Technicians

1 3

Prerequisites:

ELC 111, ELC 112, or ELC 131 (Local)

Co-requisites:

None

This course introduces computer software which can be used to solve electrical/electronics problems. Topics include electrical/electronics calculations and applications. Upon completion, students should be able to utilize a personal computer for electrical/electronics- related applications.

ELC 128

Introduction to Programmable Logic Controller (PLC)

2

3

2

Prerequisites: Corequisites: None 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.

ELC 131

DC/AC Circuit Analysis

3

5

Prerequisites:

ELC 112 (Local)

Co-requisites: 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, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment.

ELC 132

Electrical Drawings

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2

Prerequisites: Corequisites: None None

This course introduces the technical documentation that is typically found or used in the industrial environment. Topics include interpretation of service manuals, freehand sketching of lines, orthographic views and dimensions, and blueprint reading. Upon completion, students should be able to interpret technical documents and blueprints and use basic drafting skills to prepare usable field drawings.

ELC 135

Electrical Machines

2

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Prerequisites:

ELC 112 (Local)

Co-requisites:

None

This course covers magnetic circuits, transformers, DC/AC machines, and the three-phase circuit fundamentals including power factor. Topics include magnetic terms and calculations, transformer calculations based on primary or secondary equivalent circuits, and regulation and efficiency calculations. Upon completion, students should be able to perform regulation and efficiency calculations for DC/AC machine circuits.

ELC 228

Programmable Logic Controller (PLC) Applications

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4

Prerequisites:

ELC 128 (Local)

Co-requisites:

None

This course covers programming and applications of programmable logic controllers. Emphasis is placed on programming techniques, networking, specialty I/O modules, and system troubleshooting. Upon completion, students should be able to specify, implement, and maintain complex PLC controlled systems.

ELC 229

Applications Project

1

2

Prerequisites:

None

Corequisites: None

This course provides an individual and/or integrated team approach to a practical project as approved by the instructor. Topics include project selection and planning, implementation and testing, and a final presentation. Upon completion, students should be able to plan and implement an applications-oriented project.

ELECTRONICS

ELN 131

Semiconductor Applications

3

4

Prerequisites:

ELC 112 (Local)

Co-requisites: Non

This course introduces the characteristics and applications of semiconductor devices and circuits. Emphasis is placed on analysis, selection, biasing, and applications. Upon completion, students should be able to construct, analyze, verify, and troubleshoot discrete component circuits using appropriate techniques and test equipment.

ELN 132 Linear IC Applications

Prerequisites: ELN 131 (Local)

Co-requisites: None

This course introduces the characteristics and applications of linear integrated circuits. Topics include op-amp circuits, waveform generators, active filters, IC voltage regulators, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot linear integrated circuits using appropriate techniques and test equipment.

ELN 133 Digital Electronics

Prerequisites: None Corequisites: 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.

ELN 152 Fabrication Techniques

Prerequisites: Co-requisites:

This course covers the fabrication methods required to create a prototype product from the initial circuit design. Topics include CAD, layout, sheet metal working, component selection, PC board layout and construction, reverse engineering, soldering, and other related topics. Upon completion, students should be able to design and construct an electronic product with all its associated documentation.

ELN 229 Industrial Electronics 3

2

3

3

Prerequisites:

ELC 112 (Local)

Corequisites:

This course covers semiconductor devices used in industrial applications. Topics include the basic theory, application, and operating characteristics of semiconductor devices. Upon completion, students should be able to install and/or troubleshoot these devices for proper operation in an industrial electronic circuit.

ELN 231 Industrial Controls

Prerequisites: None Corequisites: 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.

ELN 232 Introduction to Microprocessors 3 3

Prerequisites: None Corequisites: None

This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment.

ELN 233 Microprocessor Systems

ELN 232 (Local) Prerequisites:

Corequisites: None

This course covers the application and design of microprocessor control systems. Topics include control and interfacing of systems using AD/DA, serial/parallel I/O, communication protocols, and other related applications. Upon completion, students should be able to design, construct, program, verify, analyze, and troubleshoot fundamental microprocessor interface and control circuits using related equipment.

ELN 235 Data Communications Systems 3

Prerequisites: ELN 237 (Local)

Co-requisites:

This course covers data communication systems and the transmission of digital information from source to destination. Topics include data transmission systems, interfaces and modems, protocols, networks, and other related topics. Upon completion, students should be able to demonstrate knowledge of the concepts associated with data communication systems.

Local Area Networks **ELN 237**

3

Prerequisites: None Co-requisites: None

This course introduces the fundamentals of local area networks and their operation. Topics include the characteristics of network topologies, system hardware, system configuration, installation and operation of the LAN. Upon completion, students should be able to install and maintain a local area network.

ELN 249

Digital Communication

Prerequisites:

None (Local Prerequisites: CET 172 or ELN 237)

Corequisites:

This course covers the core processes and applications associated with digital communication techniques. Topics include the characteristics of RF circuits, modulation, transmitters and receivers, electromagnetic transmission, antennas, and related applications. Upon completion, students should be able to demonstrate knowledge of the concepts associated with digital communication systems.

ENGLISH

Initial student placement in Academic Development courses is based on the Academic Development Placement Policy on page 17. Students should begin Academic Development course work at the appropriate level indicated by placement test scores.

ENG 080

Writing Foundations

3

Prerequisites:

Placement Score

Corequisites:

None

This course introduces the writing process and stresses effective sentences. Emphasis is placed on applying the conventions of written English, reflecting standard usage and mechanics in structuring a variety of sentences. Upon completion, students should be able to write correct sentences and a unified, coherent paragraph. This course does not satisfy the developmental reading and writing prerequisite for ENG 111 or ENG 111A.

ENG 085

Reading & Writing Foundations

5*

Prerequisites:

Placement Score

None

Corequisites: This course uses whole language to develop proficiency in reading and writing for college. Emphasis is placed on applying analytical and critical reading skills to a variety of texts and on introducing the writing process. Upon completion, students should be able to recognize and use various patterns of text organization and compose effective paragraphs. This course integrates ENG 080 and RED 080 and satisfies the developmental reading prerequisites for RED 090 and ENG 90. This course does not satisfy the developmental prerequisites for ENG 111.

ENG 090

Composition Strategies

3

3*

Prerequisites:

ENG 080, ENG 085, or Placement Test scores

Corequisites:

ENG 090A

This course provides practice in the writing process and stresses effective paragraphs. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay. This course satisfies the developmental writing prerequisites for ENG 111.

ENG 090A

Composition Strategies Lab

Prerequisites:

ENG 080, ENG 085, or Placement Test scores

Corequisites:

ENG 090

This writing lab is designed to practice the skills introduced in ENG 090. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay.

ENG 095

Reading and Composition Strategies

5*

Prerequisites:

ASSET Placement Score 36 to 40 in both reading & writing skills

Corequisites:

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. This course integrates ENG 090 and RED 090. This course satisfies the developmental reading and writing prerequisites for ENG 111.

*These credits are institutional credits only and cannot be used for graduation. They are used for determining hour load for payment, eligibility for financial aid, or classification for a full-time student.

ENG 101

Applied Communications I

3

Prerequisites: Corequisites:

None

This course is designed to enhance reading and writing skills for the workplace. Emphasis is placed on technical reading, job-related vocabulary, sentence writing, punctuation, and spelling. Upon completion, students should be able to identify main ideas with supporting details and produce mechanically correct short writings appropriate to the workplace. This is a diploma-level course.

ENG 111 Prerequisites:

Expository Writing

ENG 090 and RED 090 or ENG 095; or satisfactory placement test scores

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in English composition.

ENG 112 Argument-Based Research 3

3

Prerequisites: Corequisites:

ENG 111 None

This course, the second in a series of two, introduces research techniques, documentation styles, and argumentative strategies. Emphasis is placed on analyzing data and incorporating research findings into documented argumentative essays and research projects. Upon completion, students should be able to summarize, paraphrase, interpret, and synthesize information from primary and secondary sources using standard research format and style. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course is also available through the Virtual Learning Community (VLC).

Literature-Based Research ENG 113

3

Prerequisites: Corequisites:

ENG 111 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in English composition.

ENG 114 Professional Research and Reporting 3

Prerequisites:

ENG 111

Corequisites: None

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in English composition.

ENG 125

Creative Writing I

3 3

Prerequisites: Corequisites:

ENG 111 None

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ENG 126

Creative Writing II

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Prerequisites:

ENG 125

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ENG 231

American Literature I

3 3

Prerequisites:

ENG 112, ENG 113, or ENG 114

Corequisites:

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical, and cultural contexts. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

ENG 232

American Literature II

Prerequisites:

ENG 112, ENG 113, or ENG 114

Corequisites:

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 approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

ENG 233

Major American Writers

3

Prerequisites:

ENG 112, ENG 113, or ENG 114

Corequisites:

None

This course provides an intensive study of the works of several major American authors. Emphasis is placed on American history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

ENG 235

Survey of Film as Literature

3

Prerequisites:

ENG 113

Corequisites:

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 Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ENG 241

British Literature I

3

Prerequisites:

ENG 112, ENG 113, or ENG 114

Corequisites:

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 approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

ENG 242

British Literature II

3

Prerequisites:

ENG 112, ENG 113, or ENG 114

Corequisites:

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

ENG 261

World Literature I

3

Prerequisites:

ENG 112, ENG 113, or ENG 114

Corequisites:

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

ENG 262

World Literature II

3

3

Prerequisites:

ENG 112, ENG 113, or ENG 114

Corequisites:

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

ENG 271

Contemporary Literature

3

Prerequisites:

ENG 112, ENG 113, or ENG 114 None

Corequisites: This course includes a study of contemporary literature. Emphasis is placed on literary and cultural trends of selected texts. Upon completion, students should be able to interpret, analyze, and respond to the literature. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ENG 272 Southern Literature

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course provides an analytical study of the works of several Southern authors. Emphasis is placed on the historical and cultural contexts, themes, aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

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ENG 274 Literature by Women

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course provides an analytical study of the works of several women authors. Emphasis is placed on the historical and cultural contexts, themes and aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

ENTREPRENEURSHIP

ETR 220 Innovation and Creativity

Prerequisites: None Corequisites: None

This course provides a study of developing and enhancing individual and organizational creativity and innovation. Topics include that innovation needs to be applied to products, services, and processes to increase competitive advantages and add value to businesses. Upon completion, students should be able to apply innovation and creativity principles in the work place.

ETR 230 Entrepreneur Marketing

Prerequisites: None Corequisites: None

This course covers the techniques to correctly research and define the target market to increase sales for start up businesses or to expand current businesses. Topics include how to target market and meet customers' needs with a limited budget in the early stages of the life of a start up business. Upon completion, students should be able to demonstrate an understanding of how to correctly target market for a start-up business with limited resources.

ETR 240 Funding for Entrepreneurs

Prerequisites: ACC 120 Corequisites: None

This course provides a focus on the financial issues and needs confronting entrepreneurs attempting to grow their businesses by attracting startup and growth capital. Topics include sources of funding including: angel investors, venture capital, IPO's, private placement, banks, suppliers, buyers, partners, and the government. Upon completion, students should be able to demonstrate an understanding of how to effectively finance a business venture.

FILM AND VIDEO PRODUCTION

FVP 227 Multimedia Production

Prerequisites: None Corequisites: None

This course covers technical terms used in the multimedia industry and introduces skills related to digital manipulation of audio and video materials. Emphasis is placed on technical terms used in multimedia work and integration of sound, video, graphics, and text into a single production. Upon completion, students should be able to define technical terms in multimedia work and work with a variety of computer hardware and software.

GEOLOGY

GEL 111 Introductory Geology

Prerequisites None Corequisites: None

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

GEL 113

Historical Geology

Prerequisites:

GEL 111

Corequisites: None This course covers the geological history of the earth and its life forms. Emphasis is placed on the study of rock strata, fossil groups, and geological time. Upon completion, students should be able to identify major fossil groups and associated rock strata and approximate ages of geological formations. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

GEOGRAPHY

GEO 111

World Regional Geography

None

Prerequisites: Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

GEO 112

Cultural Geology

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Prerequisites: Corequisites:

None None

This course is designed to explore the diversity of human cultures and to describe their shared characteristics. Emphasis is placed on the characteristics, distribution, and complexity of earth's cultural patterns. Upon completion, students should be able to demonstrate an understanding of the differences and similarities in human cultural groups. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

GEO 113

Economic Geography

3

Prerequisites:

None

Corequisites:

This course covers the patterns and networks of economic interdependence and how they affect human populations. Emphasis is placed on the economic aspects of the production and distribution of goods and services and their impact on the quality of human life. Upon completion, students should be able to describe different economic systems and demonstrate an understanding of the variables that influence economic development. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

GEO 130

General Physical Geography

Prerequisites:

None

Corequisites: None

This course introduces both the basic physical components that help shape the earth and the study of minerals, rocks, and evolution of landforms. Emphasis is placed on the geographic grid, cartography, weather, climate, mineral composition, fluvial processes, and erosion and deposition. Upon completion, students should be able to identify these components and processes and explain how they interact. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

GEO 131

Physical Geography I

Prerequisites: Corequisites:

None None

This course introduces the basic physical components that help shape the earth. Emphasis is placed on the geographic grid, cartography, weather, climate, biogeography, and soils. Upon completion, students should be able to identify these components and explain how they interact. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

GRAPHIC ARTS

GRA 110

Graphic Arts Orientation

2

Prerequisites:

None

Corequisites: None

This course covers the history, development, and commercial applications of the major printing processes. Topics include offset lithography, screen printing, intaglio, relief printing, and emerging technologies. Upon completion, students should be able to demonstrate an understanding of the major characteristics, advantages, and disadvantages of each process.

GRA 121

Graphic Arts I

Prerequisites: None

Corequisites: None

This course introduces terminology, tools and materials, procedures, and equipment used in graphic arts production. Topics include copy preparation and pre-press production relative to printing. Upon completion, students should be able to demonstrate an understanding of graphic arts production.

GRAPHIC DESIGN

GRD 110

Typography I

3

Prerequisites: Corequisites:

None None

This course introduces the history and mechanics of type and its application to layout and design. Topics include typographic fundamentals, anatomy, measurements, composition, identification, and terminology. Upon completion, students should be able to demonstrate proficiency in design application, analysis, specification, and creation of typographic elements.

GRD 111

Typography II

3

Prerequisites:

GRD 110

Corequisites: None

This course is a continuation of GRD 110. Emphasis is placed on solving challenging typographic problems. Upon completion, students should be able to understand and demonstrate advanced typographic applications.

GRD 131

Illustration I

Prerequisites:

ART 131 or DES 125 or GRD 121

Corequisites:

This course introduces the application of rendering techniques to create illustrations. Emphasis is placed on controlling various media, methods, surfaces, design problems, and the appropriate media selection process. Upon completion, students should be able to produce quality illustrations from conception through finished artwork.

GRD 132

Illustration II

2

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Prerequisites:

GRD 131

Corequisites: None

This course is a continuation of GRD 131. Topics include editorial, product, fashion, and advertising illustrations. Upon completion, students should be able to demonstrate increased proficiency in creating quality illustrations from conceptualization through finished artwork.

GRD 133

Illustration III

3

Prerequisites:

GRD 132

Corequisites:

This course is designed to strengthen visual techniques and conceptual approaches to illustration. Emphasis is placed on advanced rendering techniques, requirements, and limitations. Upon completion, students should be able to create comprehensive illustrations that meet client/printer requirements.

GRD 141

Graphic Design I

Prerequisites:

None

Corequisites:

This course introduces the conceptualization process used in visual problem solving. Emphasis is placed on learning the principles of design and on the manipulation and organization of elements. Upon completion, students should be able to apply design principles and visual elements to projects.

GRD 142

Graphic Design II

Prerequisites:

DES 135 or GRD 141 or ART 121

Corequisites:

This course covers the application of visual elements and design principles in advertising and graphic design. Topics include creation of various designs, such as logos, advertisements, posters, outdoor advertising, and publication design. Upon completion, students should be able to effectively apply design principles and visual elements to projects.

GRD 151

Computer Design Basics

3

Prerequisites:

None

Corequisites: None

This course covers designing and drawing with various types of software applications for advertising and graphic design. Emphasis is placed on creative and imaginative use of space, shapes, value, texture, color, and typography to provide effective solutions to advertising and graphic design problems. Upon completion, students should be able to use the computer as a creative tool.

GRD 152 Computer Design Technology I

GRD 151 Prerequisites: Corequisites: None

This course covers complex design problems utilizing various design and drawing software applications. Topics include the expressive use of typography, image, and organization to communicate a message. Upon completion, students should be able to use appropriate computer software to professionally present their work.

GRD 153 Computer Design Technology II 3

3

Prerequisites: Corequisites:

GRD 152 None

This course covers advanced theories and practices in the field of computer design. Emphasis is placed on advanced use of color palettes, layers, and paths. Upon completion, students should be able to creatively produce designs and articulate their rationale.

GRD 160 Photo Fundamentals I 3

None Prerequisites: Corequisites: None

This course introduces basic camera operations, roll film processing, and photographic print production. Topics include contrast, depth-of-field, subject composition, enlarger operation, and density control. Upon completion, students should be able to produce photographic prints with acceptable density values and quality.

GRD 161 Photo Fundamentals II 3

Prerequisites: GRD 160 Corequisites: None

This course is a continuation of GRD 160. Topics include conversions, toning, color, specialized equipment, lighting, processing, and other methods and materials. Upon completion, students should be able to demonstrate proficiency in producing photographic prints.

GRD 162 Photography Portfolio 3

GRD 161 Prerequisites: Corequisites: None

This course provides an opportunity to develop a portfolio through research and review of previous photographic works. Topics include visual communication skills and presentation of works. Upon completion, students should be able to prepare and present a portfolio of their photographic works.

GRD 210 Airbrush I 2

Prerequisites:

None Corequisites: None

This course covers the mechanics of airbrushing. Topics include care and maintenance of equipment, spraying techniques and surfaces, and selection of materials. Upon completion, students should be able to produce work demonstrating competent use of an airbrush.

GRD 241 Graphic Design III

Prerequisites:

DES 136 or GRD 142

Corequisites:

This course is an advanced exploration of various techniques and media for advertising and graphic design. Emphasis is placed on advanced concepts and solutions to complex and challenging graphic design problems. Upon completion, students should be able to demonstrate competence and professionalism in visual problem solving.

GRD 242 Graphic Design IV

Prerequisites: **GRD 241** Corequisites: None

This course is a continuation of GRD 241. Emphasis is placed on using advanced media techniques, concepts, strategies, and professionalism in all aspects of design. Upon completion, students should be able to conceptualize, create, and produce designs for reproduction.

GRD 263 Hlustrative Imaging 3

Prerequisites:

GRD 151 or GRA 151

Corequisites:

This course covers the creative manipulation of images utilizing digital techniques of masking, layering, airbrushing, and painting. Topics include the aesthetic analysis of visual imagery as well as the legalities of manipulating images. Upon completion, students should be able to utilize software applications to creatively manipulate and illustratively build digital images which accomplish design objectives.

GRD 280

Portfolio Design

Prerequisites:

GRD 142 and GRD 152 or GRA 152

Corequisites:

None

This course covers the organization and presentation of a design/advertising or graphic art portfolio and appropriate related materials. Emphasis is placed on development and evaluation of the portfolio, design and production of a résumé and self-promotional materials, and interview techniques. Upon completion, students should be able to prepare and professionally present an effective portfolio and related self-promotional materials.

GRD 281

Design of Advertising

2

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Prerequisites: Corequisites: None

This course explores the origins, roles, scope, forms, and development of advertising. Emphasis is placed on advertising development from idea through production and the interrelationship of marketing to types of advertising, media, and organizational structure. Upon completion, students should be able to demonstrate an understanding of the complexities and relationships involved in advertising design.

HEALTH

HEA 110

Personal Health/Wellness

3

3

Prerequisites: Corequisites: None 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HEA 112

First Aid and CPR

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2

Prerequisites: Corequisites: None 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HEA 120

Community Health

3

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Prerequisites: Corequisites: None None

This course provides information about contemporary community health and school hygiene issues. Topics include health education and current information about health trends. Upon completion, students should be able to recognize and devise strategies to prevent today's community health problems. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HISTORY

HIS 111

World Civilizations I

RED 090 or satisfactory placement test scores (L)

3

3

Prerequisites: Corequisites:

None

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

HIS 112

World Civilizations II

3

3

Prerequisites: Corequisites: RED 090 or satisfactory placement test scores (L)

This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

HIS 131 American History I

Prerequisites: RED 090 or satisfactory placement test scores (L)

Corequisites: None

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

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HIS 132 American History II

Prerequisites: RED 090 or satisfactory placement test scores

Corequisites: None

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

HIS 213 Modern Europe to 1815

Prerequisites: RED 090 (L)

Corequisites: None

This course traces the cultural, political, economic, social, religious, and intellectual history of Europe from the end of the Middle Ages to 1815. Topics include the Renaissance, the Reformation, religious wars, absolutism, colonialism, the Scientific Revolution, the Enlightenment, the French Revolution, and Napoleon. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early modern Europe. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HIS 214 Modern Europe Since 1815

Prerequisites: RED 090 (L)

Corequisites: None

This course traces the history of Europe from 1815 to the present. Topics include the Congress of Vienna, the Revolutionary era, liberalism, socialism, imperialism, nationalism, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant intellectual, political, socioeconomic, and cultural developments in modern Europe since 1815. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HIS 226 The Civil War

Prerequisites: RED 090 (L)

Corequisites: 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 impact, aftermath, and consequences. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the United States during the era of the Civil War. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HIS 228 History of the South

Prerequisites: RED 090 (L)

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HIS 236 North Carolina History

Prerequisites: RED 090 or satisfactory placement test scores (L)

Corequisites: 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 impact, aftermath, and consequences. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the United States during the era of the Civil War. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HUMANITIES

HUM 115 Critical Thinking

Prerequisites: ENG 095 or RED 090 and ENG 090

Corequisites: None

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may meet the SACS humanities requirement for AAS degree programs.

HUM 120 Cultural Studies

3 0 3

3

Prerequisites: None Corequisites: None

This course introduces the distinctive features of a particular culture. Topics include are, 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

HUM 122 Southern Culture

0 3

Prerequisites: None Corequisites: 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).

HUM 130 Myth in Human Culture

3 0 3

Prerequisites: None Corequisites: None

This course provides an in-depth study of myths and legends. Topics included 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

HUM 160 Introduction to Film

2 0 3

Prerequisites: None Corequisites: None

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values refleced in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

HUM 170 The Holocaust

3 0 3

Prerequisites: None Corequisites: None

This course provides a survey of the destruction of European Jewry by the Nazis during World War II. Topics include the anti-Semitic ideology, bureaucratic structures, and varying conditions of European occupation and domination under the Third Reich. Upon completion, students should be able to demonstrate an understanding of the historical, social, religious, political, and economic factors which cumulatively resulted in the Holocaust. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

HUM 211 Humanities I

3 0 3

Prerequisites: ENG 111 Corequisites: 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 approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

HUM 212 Humanities II

Prerequisites: ENG 111 Corequisites: 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 early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

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HUM 220 Human Values and Meaning

Prerequisites: ENG 111 Corequisites: None

This course presents some major dimensions of human experience as reflected in art, music, literature, philosophy, and history. Topics include the search for identity, the quest for knowledge, the need for love, the individual and society, and the meaning of life. Upon completion, students should be able to recognize interdisciplinary connections and distinguish between open and closed questions and between narrative and scientific models of understanding. This course is intended for all Associate degree programs. This course may satisfy the SACS humanities requirement.

HYDRAULICS

HYD 110 Hydraulics/Pneumatics I

Prerequisites: None Corequisites: 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.

INDUSTRIAL SCIENCE

ISC 110 Workplace Safety

Prerequisites: None Corequisites: None

This course introduces the basic concepts of workplace safety. Topics include fire, ladders, lifting, lock-out/tag-out, personal protective devices, and other workplace safety issues related to OSHA compliance. Upon completion, students should be able to demonstrate an understanding of the components of a safe workplace.

ISC 121 Environmental Health and Safety

Prerequisites: None Corequisites: None

This course covers workplace environmental health and safety concepts. Emphasis is placed on managing the implementation and enforcement of environmental health and safety regulations and on preventing accidents, injuries, and illnesses. Upon completion, students should be able to demonstrate an understanding of basic concepts of environmental health and safety.

ISC 132 Manufacturer Quality Control

Prerequisites: None Corequisites: None

This course introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools. Upon completion, students should be able to demonstrate an understanding of the concepts and principles of quality and apply them to the work environment.

JOURNALISM

JOU 110 Introduction to Journalism

Prerequisites: None Corequisites: 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.

JOU 111 Publication Workshop I

Prerequisites: JOU 110 Corequisites: 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.

JOU 112 Publication Workshop II

Prerequisites: JOU 111 Corequisites: 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.

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JOU 120 Journalism: Theory and Production

Prerequisites: ENG 111 Corequisites: None

This course provides a study of basic journalistic writing and production techniques. Emphasis is placed on interviewing, drafting, editing, layout, design, and printing. Upon completion, students should be able to demonstrate competence in the various phases of writing and producing a publication.

MACHINING

MAC 111 Machining Technology I

Prerequisites: None Corequisites: None

This course introduces machining operations as they relate to the metalworking industry. Topics include machine shop safety, measuring tools, lathes, drilling machines, saws, milling machines, bench grinders, and layout instruments. Upon completion, students should be able to safely perform the basic operations of measuring, layout, drilling, sawing, turning, and milling.

MAC 112 Machining Technology II

Prerequisites: MAC 111 (Local)

Corequisites: None

This course provides additional instruction and practice in the use of precision measuring tools, lathes, milling machines, and grinders. Emphasis is placed on setup and operation of machine tools including the selection and use of work holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning, and milling.

MAC 113 Machining Technology III

Prerequisites: MAC 112 (Local)

Corequisites: None

This course provides an introduction to advanced and special machining operations. Emphasis is placed on working to specified tolerances with special and advanced setups. Upon completion, students should be able to produce a part to specifications.

MAC 114 Introduction to Metrology

Prerequisites: None Corequisites: None

This course introduces the care and use of precision measuring instruments. Emphasis is placed on the inspection of machine parts and use of a wide variety of measuring instruments. Upon completion, students should be able to demonstrate the correct use of measuring instruments.

MAC 121 Introduction to Computer Numerical Controls (CNC)

Prerequisites: None Corequisites: None

This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. Upon completion, students should be able to explain operator safety, machine protection, data input, program preparation, and program storage.

MAC 122 CNC Turning

None

Prerequisites: None

Corequisites:

This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC turning centers.

MAC 124 CNC Milling

Prerequisites: None Corequisites: 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.

MAC 151

Machining Calculations

Prerequisites:

None None

Corequisites: 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.

MAC 222

Advanced CNC Turning

Prerequisites:

MAC 122 (Local)

Corequisites: 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.

MAC 224

Advanced CNC Milling

MAC 124 (Local)

Prerequisites: Corequisites:

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,

MASONRY

MAS 110

Masonry I

None

Prerequisites: Corequisites: None

This course introduces the basic principles of construction with masonry units. Topics include history of the masonry field, safety practices, blueprint reading, and principles of laying masonry units to the line using tools, equipment, and materials. Upon completion, students should be able to demonstrate knowledge of safety practices, blueprint reading, and basic tool use; identify materials; operate machinery; and lay masonry units.

MAS 140

Introduction to Masonry

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Prerequisites: Corequisites:

None None

This course introduces basic principles and practices of masonry. Topics include standard tools, materials, and practices used in basic masonry and other related topics. Upon completion, students should be able to demonstrate an understanding of masonry and be able to use basic masonry techniques.

MATHEMATICS

Initial student placement in Academic Development courses is based on the Academic Development Placement Policy on page 17. Students should begin Academic Development course work at the appropriate level indicated by placement test scores.

MAT 060

Essential Mathematics

Prerequisites:

Placement score

Corequisites:

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.

MAT 070

Introductory Algebra

Prerequisites:

MAT 060 or satisfactory placement test score Placement score

Corequisites:

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.

MAT 080

Intermediate Algebra

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Prerequisites:

MAT 070 or satisfactory placement test score

Corequisites:

Placement score

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.

*These credits are institutional credits only and cannot be used for graduation. They are used for determining hour load for payment, eligibility for financial aid, or classification for a full-time student.

MAT 101 Applied Mathematics I

Prerequisites: MAT 060 or satisfactory placement test scores

Corequisites: 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. This course is intended for certificate and diploma programs.

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MAT 102 Applied Mathematics II

Prerequisites: MAT 101 Corequisites: None

This course introduces the concepts of right triangle 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, and right triangle trigonometry. Upon completion, students should be able to solve applied problems both independently and collaboratively. This course is intended for certificate and diploma programs.

MAT 115 Mathematical Models

Prerequisites: MAT 070 Corequisites: None

This course develops the ability to utilize mathematical skills and technology to solve problems at a level found in non-mathematics-intensive programs. Topics include applications to percent, ratio and proportion, formulas, statistics, functional notation, linear functions and their group, probability, sampling techniques, scatter plots, and modeling.

MAT 140 Survey of Mathematics

Prerequisites: MAT 070 Corequisites: None

This course provides an introduction in a non-technical setting to selected topics in mathematics. Topics may include, but are not limited to, sets, logic, probability, statistics, matrices, mathematical systems, geometry, topology, mathematics of finance, and modeling. Upon completion, students should be able to understand a variety of mathematical applications, think logically, and be able to work collaboratively and independently. This course has been approved under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement to satisfy the general education mathematics requirement for the AA and AFA degrees. It does not satisfy the general education mathematics requirement for the AS degree. This course is also available through the Virtual Learning Community (VLC).

MAT 141 Mathematical Concepts I

Prerequisites: MAT 080 or MAT 090

Corequisites: MAT 141A

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, measurements including metrics, and problem solving. Upon completion, student should be able to communicate orally and in writing these basic mathematical concepts. This course has been approved under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement to satisfy the general education mathematics requirement for the AA and AFA degrees. It does not satisfy the general education mathematics requirement for the AS degree.

MAT 141A Mathematical Concepts I Lab

Prerequisites: MAT 080 or MAT 090

Corequisites: MAT 141

This course is a laboratory for MAT 141. 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.

MAT 142 Mathematical Concepts II

Prerequisites: MAT 141 Corequisites: MAT 142A

This course if the second of a two course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on probability, statistics, functions, introductory geometry, and mathematics of finance. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts and utilize technology as a mathematical tool. This course can be used to meet the math requirement for elementary, middle grades and special education only cannot be substituted for other AA/AS programs. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirements in natural sciences/mathematics.

MAT 142A Mathematical Concepts II Lab

Prerequisites: MAT 141 Corequisites: MAT 142

This course is a laboratory for MAT 142. 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.

MAT 151

Statistics I

Prerequisites:

MAT 080, RED 090 or satisfactory placement test scores (L)

Corequisites:

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. Additional topics will include standardization, the central limit theorem, and confidence intervals. 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

MAT 161

College Algebra

Prerequisites:

MAT 080, RED 090 or satisfactory placement test scores (L)

Corequisites:

This course provides an integrated technological approach to algebraic topics used in problem solving. Emphasis is placed on equations and inequalities; polynomials, rational, exponential and logarithmic functions; and graphing and data analysis/modeling. Additional topics may include conic sections, sequences and series, and counting techniques. 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 under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement to satisfy the general education mathematics requirement for the AA and AFA degrees. It does not satisfy the general education mathematics requirement for the AS degree.

MAT 162

College Trigonometry

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Prerequisites:

MAT 161

Corequisites: This course provides an integrated technological approach to trigonometry and its applications. Topics include trigonometric ratios, right triangles, oblique triangles, trigonometric functions, graphing, vectors, and complex numbers. Upon completion, students should be able to apply the above principles of trigonometry to problem solving and communication. This course has been approved under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement to satisfy the general education mathematics requirement for the AA and AFA degrees. It does not satisfy the general education mathematics requirement for the AS degree.

MAT 171

Precalculus Algebra

Prerequisities:

MAT 080, RED 090 or satisfactory placement test scores (L)

Corequisites:

MAT 171A

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 is intended for AS degree programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

MAT 171A

Precalculus Algebra Lab

Prerequisites:

MAT 080, RED 090 or satisfactory placement test scores (L)

Corequisites:

MAT 171

This course is 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 is intended for AS degree programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MAT 172

Precalculus Trigonometry

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Prerequisites:

MAT 171

Corequisites:

MAT 172A

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, and vectors. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. This course is intended for AS degree programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

MAT 172A

Precalculus Trigonometry Lab

Prerequisites:

MAT 171

Corequisites:

MAT 172

This course is 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 is intended for AS degree programs. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MAT 175

Precalculus

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RED 090 and MAT 080 or satisfactory placement test scores (L) Prerequisites:

Corequisites:

This course provides an intense study of the topics which are fundamental to the study of calculus. Emphasis is placed on functions and their graphs with special attention to polynomial, rational, exponential, logarithmic and trigonometric functions, and analytic trigonometry. Sequences and series may also be discussed. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

MAT 210 Logic

MAT 161, MAT 171, MAT 172 or MAT 175

Corequisites:

Prerequisites:

This course introduces the concept of deductive logic with emphasis on the use of formal logic in analysis. Topics include traditional logic, propositional logic, and determination of validity including truth tables, Venn diagrams, and translational ordinary language discourse. In addition, t here will be a focus on an introduction to proof techniques. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MAT 263

Brief Calculus

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Prerequisites: MAT 161, MAT 171, MAT 172 or MAT 175

MAT 263A Corequisites:

This course introduces concepts of differentiation and integration and their applications to solving problems; the course is designed for students needing one semester of calculus. Topics include functions, graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion, students should be able to demonstrate and understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

MAT 263A

Brief Calculus Lab

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MAT 161, MAT 171, MAT 172 or MAT 175 Prerequisites:

MAT 263 Corequisites:

This course is a laboratory for MAT 263. 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MAT 271

Calculus I

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Prerequisites: MAT 172 or 175 or satisfactory placement test scores

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

MAT 272

Calculus II

Prerequisites:

MAT 271

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

MAT 273

Calculus III

Prerequisites:

MAT 272

Corequisites:

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. Also covered will be differential equations of several variables. Upon completion, students should be able to solve problems involving vectors and functions of several variables. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in mathematics.

MAT 280

Linear Algebra

Prerequisites:

MAT 271

Corequisites: None

This course provides a study of linear algebra topics with emphasis on the development of both abstract concepts and applications. Topics include vectors, systems of equations, matrices, determinants, vector spaces, linear transformations in two or three dimensions, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate both an understanding of the theoretical concepts and appropriate use of linear algebra models to solve application problems. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MAT 285

Differential Equations

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Prerequisites:

MAT 272

Corequisites: None

This course provides an introduction to ordinary differential equations with an emphasis on applications. Topics include first-order, linear higher-order, and systems of differential equations; numerical methods; series solutions; eigenvalues and eigenvectors; Laplace transforms; and Fourier series. Upon completion, students should be able to use differential equations to model physical phenomena, solve the equations, and use the solutions to analyze the phenomena. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MECHANICAL

MEC 111

Machine Processes I

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Prerequisites: Corequisites: None

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 manufacture simple parts to specified tolerances.

MEC 112

Machine Processes II

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Prerequisites:

MEC 111

Corequisites:

None

This course covers advanced use of milling machines and lathes. Emphasis is placed on safety and compound setup of milling machines and lathes for manufacture of projects with a specified fit. Upon completion, students should be able to demonstrate proper procedures for manufacture of assembled parts.

MEC 128

CNC Machining Processes

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Prerequisites:

None

Corequisites:

None

This course covers programming, setup, and operations of CNC turning, milling, and other CNC machines. Topics include programming formats, control functions, program editing, and part production and inspection. Upon completion, students should be able to manufacture simple parts using CNC machines.

MEC 172

Introduction to Metallurgy

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Prerequisites: Corequisites: None None

This course covers the production, properties, testing, classification, microstructure, and heat-treating effects of ferrous and non-ferrous metals. Topics include the iron-carbon phase diagram, ITT diagram, ANSI code, quenching, senescing, and other processes concerning metallurgical transformations. Upon completion, students should be able to understand the iron-carbon phase diagram, ITT diagram, microstructure images, and other phenomena concerning the behavior of metals.

MEC 180

Engineering Materials

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Prerequisites:

None

Corequisites:

None

This course introduces the physical and mechanical properties of materials. Topics include materials testing, pre and post-manufacturing processes, and material selection of ferrous and non-ferrous metals, plastics, composites, and non-conventional materials. Upon completion, students should be able to utilize basic material property tests and select appropriate materials for applications.

MEC 181

Introduction to Computer Integrated Manufacturing (CIM)

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Prerequisites:

None

Corequisites: None

This course introduces the elements of computer-integrated manufacturing(CIM). Topics include statistical process control, computer-aided design and manufacturing, numeric control, and flexible systems. Upon completion, students should be able to explain the major components of computer-integrated manufacturing.

MEC 231 Computer-Aided Manufacturing I

Prerequisites: None Corequisites: 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.

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MEC 232 Computer-Aided Manufacturing II

Prerequisites: MEC 231 Corequisites: 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.

MEC 236 Regional Manufacturing

Prerequisites: None Corequisites: None

This course introduces the regional manufacturing facilities. Emphasis is placed on on-site tours and interaction with local regional manufacturing personnel. Upon completion, students should be able to identify regional manufacturers, their products, basic methods, personnel, and hiring standards.

MEC 250 Statics and Strength of Materials

Prerequisites: None Corequisites: 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.

MEC 270 Machine Design

Prerequisites: DFT 151 and MEC 180, and MEC 250 or MEC 251 and MEC 252

Corequisites: None

This course covers the basic principles underlying design and selection of machine elements. Topics include stress analysis, selection of components, power transmission, and other design considerations. Upon completion, students should be able to identify and solve mechanical design problems by applying basic engineering principles.

MEC 271 Machine Design Project

Prerequisites: None Corequisites: MEC 270

This course provides an opportunity for involvement in the practical application of machine design by development of a project. Emphasis is placed on the design and engineering processes required to complete an approved project. Upon completion, students should be able to demonstrate the ability to progress from conceptual design to completed project.

MEDICAL ASSISTING

MED 121 Medical Terminology I

Prerequisites: None Corequisites: None

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatments of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.

MED 122 Medical Terminology II

Prerequisites: MED 121 Corequisites: None

This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatments 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.

MARKETING AND RETAILING

MKT 120 Principles of Marketing

Prerequisites: None Corequisites: None

This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision making.

MKT 122 Visual Merchandising

Prerequisites: None Corequisites: None

This course introduces basic layout design and commercial display in retail and service organizations. Topics include an analysis of display as a visual merchandising medium and an examination of the principles and applications of display and design. Upon completion, students should be able to plan, build, and evaluate designs and displays. This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.

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MKT 123 Fundamentals of Selling

Prerequisites: None

Corequisites: None

This course is designed to emphasize the necessity of selling skills in a modern business environment. Emphasis is placed on sales techniques involved in various types of selling situations. Upon completion, students should be able to demonstrate an understanding of the techniques covered.

MKT 125 Buying and Merchandising

Prerequisites: None Corequisites: None

This course includes an analysis of the organization for buying-what, when and how to buy-and the principles of effective inventory and stock control. Topics include organization for buying, analysis of buyers' responsibilities, pricing, inventory control, planning, cost effectiveness, and vendor relationships. Upon completion, students should be able to demonstrate an understanding of the concepts covered through application.

MKT 220 Advertising and Sales Promotion

Prerequisites: None Corequisites: 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.

MKT 222 Credit Procedures

Prerequisites: None Corequisites: None

This course covers areas of collection that provide an understanding of the expertise needed to manage collection operations. Topics include principles and practices in the extension of credit, collection procedures, and laws pertaining to credit extension and collection. Upon completion, students should be able to demonstrate an understanding of the concepts covered.

MKT 223 Customer Service

Prerequisites: None Corequisites: None

This course stresses the importance of customer relations in the business world. Emphasis is placed on learning how to respond to complex customer requirements and to efficiently handle stressful situations. Upon completion, students should be able to demonstrate the ability to handle customer relations.

MKT 225 Marketing Research

Prerequisites: MKT 120 Corequisites: None

This course provides information for decision making by providing guidance in developing, analyzing, and using data. Emphasis is placed on marketing research as a tool in decision making. Upon completion, students should be able to design and conduct a marketing research project and interpret the results. This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.

MKT 226 Retail Applications

Prerequisites: None Corequisites: None

This course is designed to develop occupational competence through participation in case studies, group work, and simulations. Emphasis is placed on all aspects of store ownership and operation, including securing financial backing and a sufficient market share. Upon completion, students should be able to demonstrate an understanding of concepts covered through application. This course is a unique concentration requirement of the Marketing and Retailing concentration in the Business Administration program.

MAINTENANCE

MNT 110 Introduction to Maintenance Procedures

Prerequisites: None Corequisites: 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.

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MNT 150 Basic Building Maintenance

Prerequisites: None Corequisites: None

This course introduces the basic skills of building maintenance. Topics include basic carpentry and masonry skills including forming, framing, laying block to a line, repairing, and other related topics. Upon completion, students should be able to perform basic carpentry and masonry skills in a maintenance setting.

MNT 220 Rigging and Moving

Prerequisites: None Corequisites: None

This course covers the principles of safe rigging practices for handling, placing, installing, and moving heavy machinery and equipment. Topics include safety, weight and dimensional estimation, positioning of equipment slings, rollers, jacks, levers, dollies, ropes, chains, padding, and other related topics. Upon completion, students should be able to safely relocate and set up equipment using accepted rigging practices.

MNT 222 Industrial Systems Schematics

Prerequisites: None Corequisites: None

This course covers the reading and drawing of schematics and diagrams. Emphasis is placed on water and gas plumbing, hydraulic and pneumatic circuits, electrical circuits, and welding diagrams. Upon completion, students should be able to interpret and construct industrial schematics and diagrams.

MUSIC

MUS 110 Music Appreciation

Prerequisites: RED 090, ENG 090 or satisfactory placement test scores (L)

Corequisites: None

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

MUS 111 Fundamentals of Music

Prerequisites: None Corequisites: None

This course is an introductory course for students with little or no music background. Emphasis is placed on music notation, rhythmic patterns, scales, key signatures, intervals, and chords. Upon completion, students should be able to demonstrate an understanding of the rudiments of music. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 112 Introduction to Jazz

Prerequisites: None Corequisites: None

This course introduces the origins and musical components of jazz and the contributions of its major artists. Emphasis is placed on the development of discriminating listening habits, as well as the investigation of the styles and structural forms of the jazz idiom. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

MUS 113 American Music

Prerequisites: None Corequisites: None

This course introduces various musical styles, influences, and composers of the United States from pre-Colonial times to the present. Emphasis is placed on the broad variety of music particular to American culture. Upon completion, students should be able to demonstrate skills in basic listening and understanding of American music. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

MUS 114

Non-Western Music

Prerequisites:

None

Corequisites: None This course provides a basic survey of the music of the non-Western world. Emphasis is place on non-traditional instruments, sources, and performing practices. Upon completion, student should be able to demonstrate skills in basic listening and understanding of the art of non-Western music. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

MUS 121

Music Theory I

3

Prerequisites: Corequisites:

None None

This course provides an in-depth introduction to melody, rhythm, and harmony. Emphasis is placed on fundamental melodic, rhythmic, and harmonic analysis, introduction to part writing, rear-training, and sight-singing. Upon completion, students should be able to demonstrate proficiency in the recognition and application of the above. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 122

Music Theory II

Prerequisites:

MUS 121

Corequisites: None

This course is a continuation of studies begun in MUS 121. Emphasis is placed on advanced melodic, rhythmic, and harmonic analysis and continued studies in part-writing, ear-training, and sight-singing. Upon completion, students should be able to demonstrate proficiency in the recognition and application of the above. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 131

Chorus I

1

Prerequisites: Corequisites:

Appropriate vocal proficiency

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 132

Chorus II

1

Prerequisites:

MUS 131

Corequisites:

None

This course provides a continuation of studies begun in MUS 131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. This course has been approved for transfer under the Comprehensive Articulation Agreement as a general education core and/or elective course requirement.

MUS 141

Ensemble I

1

Prerequisites:

Audition

Corequisites:

This course provides an opportunity to perform in any combination of instrumental, vocal, or keyboard groups of two or more. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. The ensemble courses will feature show choir literature. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 142

Ensemble II

Prerequisites:

MUS 141

Corequisites:

This course is a continuation of MUS 141. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 151V

Class Music I

Prerequisites:

None

Corequisites:

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. MUS 151V is the first of two class voice courses. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

164

MUS 152V

Class Music II

Prerequisites:

MUS 151

Corequisites: None This course is a continuation of MUS 151. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. MUS 152V is a continuation of class voice 1. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 161

Applied Music I

Prerequisites:

Audition (L)

Corequisites: None

This course provides individual instruction in the skills and techniques of the particular instrument or voice. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 162

Applied Music II

2 1

Prerequisites:

MUS 161

Corequisites: None

This course is a continuation of MUS 161. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 231

Chorus III

Prerequisites:

MUS 132

Corequisites:

None

This course is a continuation of MUS 132. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 232

Chorus IV

Prerequisites:

MUS 231

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 241

Ensemble III

1

1

Prerequisites:

None

MUS 142

Corequisites:

This course is a continuation of MUS 142. Emphasis is placed on the development of performance skills and the study of a variety of styles and periods of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 242

Ensemble IV

Prerequisites:

MUS 241

Corequisites:

None

This course is a continuation of MUS 241. Emphasis is placed on the development of performance skills and the study of styles of ensemble literature. Upon completion, students should be able to demonstrate skills needed to participate in ensemble playing leading to performance. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 261

Applied Music III

Prerequisites:

MUS 162

Corequisites:

This course is a continuation of MUS 162. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

MUS 262 Applied Music IV

Prerequisites: MUS 261 Corequisites: None

This course is a continuation of MUS 261. Emphasis is placed on techniques and styles and the exploration and study of appropriate literature. Upon completion, students should be able to demonstrate proficiency in the studied skills and repertoire through performance. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

NETWORKING TECHNOLOGY

NET 125 Networking Basics

1 4 3

Prerequisites: None Corequisites: None

This course introduces the networking field. Emphasis is placed on network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.

NET 126 Routing Basics

4 3

Prerequisites: NET 125 Corequisites: None

This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, trouble-shooting, and ACLs.

NET 225 Routing and Switching I

4 3

Prerequisites: NET 126 Corequisites: None

This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in pre-requisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP.

NET 226 Routing and Switching II

4 3

Prerequisites: NET 225 Corequisites: None

This course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, channels, and function groups, and describe the Spanning Tree protocol.

NET 289 Networking Project

4 3

Prerequisites: None Corequisites: NET 226

This course provides an opportunity to complete a significant networking project from the design phase through implentation 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.

NETWORKING OPERATING SYSTEM

NOS 110 Operating System Concepts

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Prerequisites: None Corequisites: None

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is place on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.

NOS 120 Linux/UNIX Single User

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Prerequisites: NOS 110 Corequisites: None

This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles.

NOS 130 Windows Single User

Prerequisites: NOS 110 Corequisites: None

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.

NOS 220 Linux/UNIX Administration I

2 2 3

Prerequisites: NOS 120 Corequisites: None

This course introduces the Linux file system, group administration, and system hardware controls. Topics include installation, creation and maintaining file systems, NIS client and DHCP client configuration, NFS, SMB/Samba, Configure X, Gnome, KDE, basic memory, processes, and security. Upon completion, students should be able to perform system administration tasks including installation, configuring and attaching a new Linux workstation to an existing network.

NOS 230 Windows Administration I

2 2 3

Prerequisites: NOS 130 Corequisites: None

This course covers the installation and administration of a Windows Server network operating system. Topics include managing and maintaining physical and logical devices, access to resources, the server environment, managing users, computers, and groups, and Managing/Implementing Disaster Recovery. Upon completion, students should be able to manage and maintain a Windows Server environment.

NURSING

NUR 101 Practical Nursing I 7

7 6 6 11

Prerequisites: Enrollment in the Practical Nursing program

Corequisites: None

This course introduces concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, legal/ethical/professional issues, wellness/illness patterns, and basic nursing skills. Upon completion, students should be able to demonstrate beginning understanding of nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span.

NUR 102 Practical Nursing II

8 0 12 12

Prerequisites: NUR 101 (Local) Corequisites: BIO 168 (Local)

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.

NUR 103 Practical Nursing III

0 12 10

Prerequisites: NUR 101, NUR 102, BIO 168 (Local)

Corequisites: BIO 169 (Local)

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.

NUR 107 LPN Refresher

9 0 9 12

Prerequisite: Previous LPN Licensure

Correquisite: None

This refresher course is designed to provide an independent didactic review for the previously licensed practical nurse whose license has lapsed. Emphasis is placed on common medical-surgical conditions and nursing interventions, including mental health principles, pharmacological concepts, and safe clinical practice. Upon completion, students will be eligible to apply for reinstatement of licensure.

NUR 111 Introduction to Health Concepts

4 6 6 1

Prerequisites: Acceptance into the Associate Degree Nursing Program as a generic student

Corequisites: BIO 168 (if not already completed)

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 112: Health-Illness Concepts

Prerequisites:

NUR 111

Corequisites:

Prerequisites:

BIO 169 (if not already completed)

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.

NUR 113: Family Health Concepts

NUR 114, Psy 241

Corequisites: BIO 175

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 114: Holistic Health Concepts

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Prerequisites: NUR 111 Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 115 Fundamentals of Nursing

3 6 5

Prerequisites: pre-admission to program

Corequisites: NUR 117, BIO 155, and BIO 165

This course introduces concepts basic to beginning nursing practice. Emphasis is placed on the application of the nursing process to provide and manage care as a member of the discipline of nursing. Upon completion, students should be able to demonstrate beginning competence in caring for individuals with common alterations of health.

NUR 117 Pharmacology

3 0

Prerequisites: pre-admission to program

Corequisites: NUR 115

This course introduces information concerning sources, effects, legalities, and the safe use of medications as therapeutic agents. Emphasis is placed on nursing responsibility, accountability pharmocokinetics, routes of medication administration, contraindications and side effects. Upon completion, students should be able to compute dosages and administer medication safely.

NUR 118 Nutrition/Diet Therapy

0 0 2

Prerequisites: None Corequisites: None

This course covers the six nutrient categories and provides an overview of diet recommendations for promotion and maintenance of health. Topics include the food pyramid recommendations for individuals across the life span, energy balance, and special dietary modifications for common alterations in health. Upon completion, students should be able to complete a nutritional assessment, analyze diets, and recommend dietary adaptations to meet individual health needs.

NUR 125 Maternal-Child Nursing

5 3 6 8

Prerequisites: NUR 115 and NUR 135

Corequisites: NUR 233

This course introduces nursing concepts related to the delivery of nursing care for the expanding family. Emphasis is placed on utilizing the nursing process as a framework for managing/providing nursing care to individuals and families along the wellness-illness continuum. Upon completion, students should be able to utilize the nursing process to deliver nursing care to mothers, infants, children, and families.

NUR 133 Nursing Assessment

2 3 0 3

Prerequisites: NUR 115 Corequisites: BIO 166

This course provides theory and application experience for performing nursing assessment of individuals. Emphasis is placed on interviewing and physical assessment techniques and documentation of findings appropriate for nursing. Upon completion, students should be able to complete a health history and perform a noninvasive physical assessment.

Adult Nursing I **NUR 135**

Prerequisites: **NUR 115 BIO 166** Corequisites:

This course introduces concepts related to the nursing care of individuals experiencing acute and chronic alterations in health. Emphasis is placed on utilizing the nursing process as a framework for providing and managing nursing care to individuals along the wellness-illness continuum. Upon completion, students should be able to apply the nursing process to individuals experiencing acute and chronic alterations in health.

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NUR 185 Mental Health Nursing

Prerequisites: NUR 115 and NUR 135

Corequisites: **NUR 133**

This course includes concepts related to the nursing care of individuals experiencing alterations in social and psychological functioning. Emphasis is placed on utilizing the nursing process to provide and manage nursing care for individuals with common psychiatric disorders or mental health needs. Upon completion, students should be able to apply psychosocial theories in the nursing care of individuals with psychiatric/mental health needs.

NUR 189 Nursing Transition

Prerequisites: Corequisites: None

This course is designed to assist the licensed practical nurse in transition to the role of the associate degree nurse. Topics include the role of the registered nurse, nursing process, homeostasis, and validation of selected nursing skills and physical assessment. Upon completion, students should be able to articulate into the ADN program at the level of the generic student. To register for this course the student must have current, non-restricted license to practice as a Licensed Practical Nurse (LPN) in North Carolina, have passed the advanced placement challenge exam, and be admitted into the Associate Degree Nursing Program as an advanced placement student.

NUR 211: **Health Care Concepts**

Prerequisites: NUR 111 Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 212: Health System Concepts

Prerequisites: NUR 114, PSY 241

Corequisites: **BIO 175**

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.

NUR 213: Complex Health Concepts

Prerequisites: NUR 111, NUR 112, NUR 113, NUR 114, NUR 211, NUR 212

Corequisites:

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.

NUR 214 Nursing Transition Concepts

Acceptance into the Associate Degree Nursing Program as an advanced placement student Prerequisites:

Co requisite: **NUR 211**

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.

NUR 233 Leadership in Nursing

Prerequisites: **NUR 135 NUR 125** Corequisites:

This course is designed to enhance nursing leadership and management skills in a variety of health care settings. Emphasis is placed on leadership styles, supervision, delegation, leadership and management theories, conflict resolution, change, and time management. Upon completion, students should be able to apply leadership and management skills in a variety of health care settings.

NUR 235

Adult Nursing II

Prerequisites:

NUR 135, NUR 125, and NUR 185

Corequisites:

NUR 244, NUR 233

This course provides expanded concepts related to nursing care for individuals experiencing common complex alterations in health. Emphasis is placed on the nurse's role as a member of a multidisciplinary team and as a manager of care for a group of individuals. Upon completion, students should be able to provide comprehensive nursing care for groups of individuals with common complex alterations in health.

NUR 244

Issues and Trends

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Prerequisites:

NUR 135

Corequisites: NUR 125

This course presents an overview of current trends and issues in nursing as they affect nursing practice in a changing health care environment. Emphasis is placed on making an effective transition into the roles of the practicing nurse. Upon completion, students should be able to articulate professional aspects of the practice of nursing.

OPERATIONS MANAGEMENT

OMT 112

Materials Management

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Prerequisites:

Corequisites: Non

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.

OMT 260

Issues in Operations Management

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Prerequisites:

ISC 121, ISC 210, OMT 112, and ISC 132 or ISC 221

Corequisites:

None

This course presents a variety of topics that highlight contemporary problems and issues related to operations management. Emphasis is placed on production and operations planning, environmental health and safety, materials management, and quality systems. Upon completion, students should be able to demonstrate the ability to make decisions and resolve problems in an operations management environment. This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program.

OFFICE SYSTEMS TECHNOLOGY

OST 131

Keyboarding

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Prerequisites:

None

Corequisites: None

This course covers basic keyboarding skills. Emphasis is placed on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at an acceptable speed and accuracy level using the touch system.

OST 134

Text Entry & Formatting

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Prerequisites:

OST 131 (L)

Corequisites:

None

This course is designed to provide the skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate with employability.

OST 136

Word Processing

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Prerequisites:

None

Corequisites: None

This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment.

OST 148

Medical Coding Billing and Insurance

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Prerequisites:

None

Corequisites:

None

This course introduces fundamentals of medical coding, billing, and insurance. Emphasis is placed on the medical billing cycle to include third party payers, coding concepts, and form preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim.

OST 149 Medical Legal Issues

Prerequisites: None Corequisites: None

This course introduces the complex legal, moral, and ethical issues involved in providing health-care services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior.

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OST 164 Text Editing Applications

Prerequisites: None Corequisites: None

This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text.

OST 184 Records Management

Prerequisites: None Corequisites: None

This course includes the creation, maintenance, protection, security, and disposition of records stored in a variety of media forms. Topics include alphabetic, geographic, subject, and numeric filing methods. Upon completion, students should be able to set up and maintain a records management system.

OST 241 Medical Office Transcription I

Prequisites: MED 121; OST 134 or OST 136 and OST 164 (L)

Corequisites: None

This course introduces machine transcription techniques as applied to medical documents. Emphasis is placed on accurate transcription, proofreading, and use of reference materials as well as vocabulary building. Upon completion, students should be able to prepare accurate and usable transcripts of voice recordings in the covered specialities.

OST 243 Medical Office Simulation

Prerequisites: OST 148, OST 131 (L)

Corequisites: None

This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, storing and retrieving information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections.

OST 247 Procedure Coding

Prerequisites: MED 121

Corequisites: MED 122 (L) (Optional)

This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS coding systems. Upon completion, students should be able to properly code procedures and services performed in a medical facility.

OST 248 Diagnostic Coding

Prerequisites: MED 121

Corequisites: MED 122 (L) (Optional)

This course provides an in-depth study of diagnostic coding for the medical office. Emphasis is placed on ICD coding system. Upon completion, students should be able to properly code diagnoses in a medical facility.

OST 249 CPC Certification

Prerequisites: OST 247 and OST 248

Corequisites: 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.

OST 286 Professional Development

Prerequisites: None Corequisites: 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.

OST 289 Administrative Office Management

Prerequisites: OST 134 or OST 136, and OST 164

Corequisites: 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.

PHYSICAL EDUCATION

PED 110 Fit and Well for Life

Prerequisites: None Corequisites: None

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

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PED 111 Physical Fitness I

Prerequisites: None Corequisites: None

This course provides an individualized approach to physical fitness utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness programs. Upon completion, students should be able to set up and implement an individualized physical fitness program. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 113 Aerobics I 0 3

Prerequisites: None Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 117 Weight Training I 0 3 1

Prerequisites: None Corequisites: None

This course introduces the basics of weight training. Emphasis is placed on developing muscular strength, muscular endurance, and muscle tone. Upon completion, students should be able to establish and implement a personal weight training program.. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 128 Golf-Beginning 0 2

Prerequisites: None Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 130 Tennis-Beginning 0 2

Prerequisites: None Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 137 Badminton 0 2 1

Prerequisites: None Corequisites: None

This course covers the fundamentals of badminton. Emphasis is placed on the basics of serving, clears, drops, drives, smashes, and the rules and strategies of singles and doubles. Upon completion, students should be able to apply these skills in playing situations. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 138 Archery 0 2 1

Prerequisites: None Corequisites: None

This course introduces basic archery safety and skills. Topics include proper techniques of stance, bracing, drawing, and releasing as well as terminology and scoring. Upon completion, students should be able to participate safely in target archery. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 139 Bowling-Beginning

Prerequisites: None Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

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PED 143 Volleyball-Beginning

Prerequisites: None Corequisites: None

This course covers the fundamentals of volleyball. Emphasis is placed on the basics of serving, passing, setting, spiking, blocking, and the rules and etiquette of volleyball. Upon completion, students should be able to participate in recreational volleyball. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 152 Swimming-Beginning

Prerequisites: None Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 153 Swimming-Intermediate

Prerequisites: PED 152 Corequisites: None

This course is designed for those who have mastered basic swimming skills. Emphasis is placed on refining basic skills and learning new swim strokes. Upon completion, students should be able to demonstrate the four basic strokes, the scissors kick, the underwater swim, and other related skills. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 155 Water Aerobics

Prerequisites: None Corequisites: None

This course introduces rhythmic aerobic activities performed in water. Emphasis is placed on increasing cardiovascular fitness levels, muscular strength, muscular endurance, and flexibility. Upon completion, students should be able to participate in an individually-paced exercise program. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 156 Scuba Diving

Prerequisites: PED 153 Corequisites: None

This course provides basic instruction in fundamental skills and safety procedures for scuba diving. Emphasis is placed on the history, theory, and principles of diving; development of diving skills; safety; and care and maintenance of equipment. Upon completion, students should be able to demonstrate skills, knowledge, and techniques of scuba diving in preparation for diver certification. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 160 Canoeing-Basic

Prerequisites: PED 152 Corequisites: None

This course provides basic instruction for the beginning canoeist. Emphasis is placed on safe and correct handling of the canoe and rescue skills. Upon completion, students should be able to demonstrate basic canoeing, safe-handling, and self-rescue skills. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 174 Wilderness Pursuits

Prerequisites: None Corequisites: None

This course covers the skills necessary to prepare for and participate in a wilderness trip. Emphasis is placed on planning, preparing, and participating in a wilderness pack trip. Upon completion, students should be able to safely participate in overnight wilderness pack trips. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 187 Social Dance-Beginning

Prerequisites: None Corequisites: None

This course introduces the fundamentals of popular social dances. Emphasis is placed on basic social dance techniques, dances, and a brief history of social dance. Upon completion, students should be able to demonstrate specific dance skills and perform some dances. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 230 Shotokan Karate 0 3 1

Prerequisites: None Corequisites: None

This course introduces martial arts using the Shotokan Karate form. Topics include proper conditioning exercises, proper terminology, historical foundations, etiquette, and drills. Upon completion, students should be able to perform skills and techniques related to this form of martial arts. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PED 262 Water Safety Instructor 1 2 2

Prerequisites: PED 153 Corequisites: None

This course covers the knowledge and skills necessary to teach and certify others in the American Red Cross certification swimming programs. Emphasis is placed on teaching basic rescue skills, strengthening swimming strokes, and rescue and safety procedures. Upon completion, students should be able to demonstrate skills, knowledge, and techniques to pass the American Red Cross Water Safety Instructor's certification. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

PHILOSOPHY

PHI 215 Philosophical Issues 3 0 3

Prerequisites: ENG 111 Corequisites: None

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critique the philosophical components of an issue. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/ fine arts.

PHI 220 Western Philosophy I 3 0 3

Prerequisites: ENG 111 Corequisites: None

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and critique the philosophical components of an issue. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

PHI 221 Western Philosophy II 3 0 3

Prerequisites: ENG 111 Corequisites: None

This course covers Western intellectual and philosophic thought from post-medievalists through recent thinkers. Emphasis is placed on such figures as Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, Kant, Hegel, Marx, Mill, and representatives of pragmatism, logical positivism, and existentialism. Upon completion, students should be able to trace the development of leading ideas concerning knowledge, reality, science, society, and the limits of reason. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

PHI 240 Introduction to Ethics 3 0 3

Prerequisites: ENG 111 Corequisites: None

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

PHYSICS

PHY 110

Conceptual Physics

Prerequisites:

MAT 070 (L)

Corequisites:

None

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences. This course is also available through the Virtual Learning Community (VLC).

PHY 110A

Conceptual Physics Lab

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Prerequisites: Corequisites: None

PHY 110

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

PHY 131

Physics-Mechanics

Prerequisites:

MAT 121, MAT 161, MAT 171 or MAT 175

Corequisites:

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.

PHY 132

Physics-Electricity and Magnetism

3

Prerequisites:

PHY 131

None Corequisites:

This algebra/trigonometry-based course is a study of fundamental physical concepts as applied to engineering technology fields. Topics include systems of units, problem-solving methods, graphical analysis, waves, electricity, magnetism, circuits, transformers, motors, and generators. Upon completion, students should be able to apply the principles studied to applications in engineering technology fields.

PHY 151

College Physics I

3

Prerequisites:

MAT 162, MAT 172, or MAT 175

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

PHY 152

College Physics II

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Prerequisites: Corequisites:

PHY 151

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

PHY 251

General Physics I

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Prerequisites: Corequisites:

MAT 271

MAT 272

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.

PHY 252

General Physics II

Prerequisites:

MAT 272 and PHY 251

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in natural sciences.

PLASTICS

Prerequisites:

PLA 110 Introduction to Plastics

None

Corequisites:

None

This course introduces the plastics processing industry, including thermoplastics and thermosets. Emphasis is placed on the description, classification, and properties of common plastics and processes and current trends in the industry. Upon completion, students should be able to describe the differences between thermoplastics and thermosets and recognize the basics of the different plastic processes.

PLA 120

Injection Molding

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Prerequisites:

None

Corequisites: None

This course provides theory and processing experience with the injection molding process. Topics include machine type, molds, controls, machine-polymer part relationship, molding factors, troubleshooting, and molding problems/solutions. Upon completion, students should be able to demonstrate an understanding of machine setup and operation and be able to optimize common injection molding machines.

PLA 162

Plastics Manufacturing Processes

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Prerequisites: Corequisites: None

This course covers manufacturing processes including machining, sawing, routing, milling, drilling, taping, turning, thermoforming, molding, extrusion, laminating, reinforcing, expansion, casting, coasting, assembly, and finishing. Emphasis is placed on the process and equipment requirements, special operational concerns, setup, operation, tooling, capability limitations, maintenance, and safety. Upon completion, students should be able to select the correct process for the material required and discuss machine operation, setup, tooling, safety, and scrap recycling.

PLUMBING

PLU 111

Introduction to Basic Plumbing

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Prerequisites:

None

Corequisites: None

This course introduces basic plumbing tools, materials, and fixtures. Topics include standard tools, materials, and fixtures used in basic plumbing systems and other related topics. Upon completion, students should be able to demonstrate an understanding of a basic plumbing system.

PLU 211

Commercial/Industrial Plumbing

3

Prerequisites:

None

Corequisites: None

This course covers the installation of various commercial and industrial piping. Topics include piping in steam, gas, air, fire sprinklers, and other related topics. Upon completion, students should be able to select and install various piping systems for a variety of applications.

POLITICAL SCIENCE

POL 120

American Government

3

3

Prerequisites:

None

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

POL 130

State & Local Government

Prerequisites: No

None

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

POL 220

International Relations

3 0 3

Prerequisites: Corequisites: None

This course provides a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is placed on regional and global cooperation and conflict, economic development, trade, non-governmental organizations, and international institutions such as the World Court and UN. Upon completion, students should be able to identify and discuss major international relationships, institutions, and problems. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

PSYCHOLOGY

PSY 110

Life Span Development

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Prerequisites: Corequisites: None None

This course provides an introduction to the study of human growth and development. Emphasis is placed on the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span and apply this knowledge to their specific field of study.

PSY 150

General Psychology

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Prerequisites:

RED 090, or satisfactory placement test scores (L)

Corequisites:

None

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

PSY 237

Social Psychology

3 0 3

Prerequisites:

PSY 150 or SOC 210

Corequisites:

None

This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

PSY 239

Psychology of Personality

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Prerequisites:

PSY 150

Corequisites:

None

This course covers major personality theories and personality research methods. Topics include psychoanalytic, behavioristic, social learning, cognitive, humanistic, and trait theories including supporting research. Upon completion, students should be able to compare and contrast traditional and contemporary approaches to the understanding of individual differences in human behavior. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

PSY 241

Developmental Psychology

3

Prerequisites: Corequisites: PSY 150

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

PSY 281 Abnormal Psychology

Prerequisites: PSY 150 Corequisites: None

This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

READING

Initial student placement in Academic Development courses is based on the Academic Development Placement Policy on page 17. Students should begin Academic Development course work at the appropriate level indicated by test scores.

RED 080 Introduction to College Reading

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Prerequisites: Placement test scores

Corequisites: None

This course introduces effective reading and inferential thinking skills in preparation for RED 090. Emphasis is placed on vocabulary, comprehension, and reading strategies. Upon completion, students should be able to determine main ideas and supporting details, recognize basic patterns of organization, draw conclusions, and understand vocabulary in context. This course does not satisfy the developmental reading prerequisite for ENG 111.

RED 090 Improved College Reading

2 4*

Prerequisites: RED 080, ENG 085 or satisfactory placement test scores

Corequisites: None

This course is designed to improve reading and critical thinking skills. Topics include vocabulary enhancement; extracting implied meaning; analyzing author's purpose, tone, and style; and drawing conclusions and responding to written material. Upon completion, students should be able to comprehend and analyze college-level reading material. This course satisfies the developmental reading prerequisite for ENG 111.

*These credits are institutional credits only and cannot be used for graduation. They are used for determining hour load for payment, eligibility for financial aid, or classification for a full-time student.

RELIGION

REL 110 World Religions

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Prerequisites: RED 090, ENG 090 or satisfactory placement test scores (L)

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

REL 111 Eastern Religions

Prerequisites: RED 090, ENG 090 (L)

Corequisites: None

This course introduces the major Asian religious traditions. Topics include Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

REL 112 Western Religions

0 3

Prerequisites: RED 090, ENG 090 (L)

Corequisites: None

This course introduces the major western religious traditions. Topics include Zoroastrianism, 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

REL 211 Introduction to Old Testament

3 0 3

Prerequisites: RED 090, ENG 090 or satisfactory placement test scores (L)

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

REL 212 Introduction to New Testament

Prerequisites: RED 090, ENG 090 or satisfactory placement test scores (L)

Corequisites: 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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in humanities/fine arts.

INFORMATION SYSTEMS SECURITY

SEC 110 Security Concepts

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Prerequisites: None Corequisites: None

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy.

SEC 150 Secure Communications

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Prerequisites: SEC 110 and NET 110 or NET 125

Corequisites: None

This course provides an overview of current technologies used to provide secure transport of information across networks. Topics include data integrity through encryption, Virtual Private Networks, SSL, SSH, and IPSec. Upon completion, students should be able to implement secure data transmission technologies.

SEC 160 Secure Administration I

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Prerequisites: SEC 110 and NET 110 or NET 125

Corequisites: None

This course provides an overview of security administration and fundamentals of designing security architectures. Topics include networking technologies, TCP/IP concepts, protocols, network traffic analysis, monitoring, and security best practices. Upon completion, students should be able to identify normal network traffic using network analysis tools and design basic security defenses.

SEC 210 Intrusion Detection

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Prerequisites: SEC 160 Corequisites: None

This course introduces the student to intrusion detection methods in use today. Topics include the types of intrusion detection products, traffic analysis, and planning and placement of intrusion detection solutions. Upon completion, students should be able to plan and implement intrusion detection solution for networks and host based systems.

SEC 220 Defense-In-Depth

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Prerequisites: None Corequisites: SEC 160

This course introduces students to the concepts of defense in-depth, a security industry best practice. Topics include firewalls, backup systems, redundant systems, disaster recovery, and incident handling. Upon completion, students should be able to plan effective information security defenses, backup systems, and disaster recovery procedures.

SEC 289 Security Capstone Project

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Prerequisites: SEC 220 Corequisites: None

This course provides the student the opportunity to put into practice all the skills learned to this point. Emphasis is placed on security policy, process planning, procedure definition, business continuity, and systems security architecture. Upon completion, students should be able to design and implement comprehensive information security architecture from the planning and design phase through implementation.

SOCIOLOGY

SOC 210 Introduction to Sociology

3 0 3

Prerequisites: RED 090 or satisfactory placement test scores (L)

Corequisites: None

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

SOC 213

Sociology of the Family

Prerequisites:

RED 090, or satisfactory placement test scores (L)

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

SOC 220

Social Problems

Prerequisites:

RED 090, or satisfactory placement test scores (L)

Corequisites:

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a general education course in social/behavioral sciences.

SPANISH

SPA 111

Elementary Spanish I

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Prerequisites:

RED 090, ENG 090 or satisfactory placement test scores (L)

Corequisites:

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 and the Independent Comprehensive Articulation Agreement general education core requirement in humanities/fine arts for AA and AS only, can not be used to satisfy the Humanities requirement for AAS degrees.

SPA 112

Elementary Spanish II

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Prerequisites:

SPA 111

Corequisites: SPA 182

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement general education core requirement in humanities/fine arts for AA and AS only, can not be used to satisfy the Humanities requirement for AAS degrees.

SPA 120

Spanish for the Workplace

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Prerequisites:

None

Corequisites: 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, the students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity.

SPA 181

Spanish Lab I

Prerequisites: Corequisites:

None

SPA 111

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

SPA 182

Spanish Lab II

Prerequisites:

SPA 181

Corequisites:

SPA 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate cultural awareness. This course has been approved for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

SPA 211 Intermediate Spanish I

Prerequisites: SPA 112 Corequisites: SPA 281

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 and the Independent Comprehensive Articulation Agreement general education core requirement in humanities/fine arts for AA and AS only, can not be used to satisfy the Humanities requirement for AAS degrees.

SPA 212 Intermediate Spanish II

3 0 3

Prerequisites: SPA 211 Corequisites: SPA 282

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 and the Independent Comprehensive Articulation Agreement general education core requirement in humanities/fine arts for AA and AS only, can not be used to satisfy the Humanities requirement for AAS degrees.

SPA 281 Spanish Lab III 0 2 1

Prerequisites: SPA 182 Corequisites: SPA 211

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

SPA 282 Spanish Lab IV 0 2 1

Prerequisites: SPA 281 Corequisites: SPA 212

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 for transfer under the Comprehensive Articulation Agreement and the Independent Comprehensive Articulation Agreement as a premajor and/or elective course requirement.

SURVEYING

SRV 110 Surveying 2 6 4

Prerequisites: None

Corequisites: MAT 121, MAT 161, MAT 171, or MAT 175

This course introduces the theory and practice of plane surveying. Topics include measuring distances and angles, differential and profile leveling, compass applications, topography, and mapping. Upon completion, students should be able to use/care for surveying instruments, demonstrate field note techniques, and apply the theory and practice of plane surveying.

SUSTAINABILITY TECHNOLOGIES

SST 110 Introduction to Sustainability 3 0 3

Prerequisites: None Corequisites: 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.

SST 120 Energy Use Analysis 2 2 3

Prerequisites: 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.

SST 140

Green Building Concepts

Prerequisites:

None

None Corequisites: 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.

SST 210

Issues in Sustainability

SST 110

Prerequisites: None Corequisites:

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.

SURGICAL TECHNOLOGY

SUR 110

Introduction to Surgical Technology

3

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3

Prerequisites: Corequisites:

None SUR 111

This course provides a comprehensive study of the operative environment, professional roles, moral/legal/ethical responsibilities, and medical communications used in surgical technology. Topics include historical development, professional behaviors, medical terminology, interdepartmental/peer/relationships, operating room environment/safety, pharmacology, anesthesia, incision sites, and physiology of wound healing. Upon completion, students should be able to apply theoretical knowledge of the course topics to the operative environment.

SUR 111

Perioperative Patient Care

7

Prerequisites: Corequisites:

None **SUR 110**

This course provides theoretical knowledge for the application of essential operative skills during the perioperative phase. Topics include surgical asepsis, sterilization/disinfection, and perioperative patient care. Upon completion, students should be able to demonstrate the principles and practices of aseptic technique, sterile attire, basic case preparation, and other relevant skills.

SUR 122

Surgical Procedures I SUR 110 and SUR 111

Prerequisites: Corequisites:

SUR 123 or STP 101

This course proveides and introdution to selected basic and intermediate surgical specialities that students are exposed to the first clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment.

SUR 123

Surgical Clinical Practice I

21

7

Prerequisites:

SUR 110 and SUR 111

Corequisites:

SUR 122

This course provides clinical experience with a variety of perioperative assignments to build upon skills learned in SUR 111. Emphasis is placed on the scrub and circulating roles of the surgical technologist including aseptic technique and basic case preparation for selected surgical procedures. Upon completion, students should be able to prepare, assist with, and dismantle basic surgical cases in both the scrub and circulating roles.

SUR 134

Surgical Procedures II

5

Prerequisites:

SUR 123 or STP 101

Corequisites:

None

This course provides a comprehensive study of intermediate and advanced surgical specialties that students are exposed to in the second clinical rotation. Emphasis is placed on related surgical anatomy, pathology, and procedures that enhance theoretical knowledge of patient care, instrumentation, supplies, and equipment. Upon completion, students should be able to correlate, intergrate, and apply theoretical knowledge of the course topics to the clinical operative environment.

SUR 135

Surgical Clinical Practice II

12

Prerequisites:

SUR 123

Corequisites:

SUR 134 or SUR 137

This course provides clinical experience with a variety of perioperative assignments to build skills required for complex perioperative patient care. Emphasis is placed on greater technical skills, critical thinking, speed, efficiency, and autonomy in the operative setting. Upon completion, students should be able to function in the role of an entry-level surgical technologist.

SUR 137 Professional Success Preparation

Prerequisites: SUR 123

Corequisites: SUR 134 and SUR 135

This course provides job-seeking skills and an overview of theoretical knowledge in preparation for certification. Topics include test-taking strategies, resume preparation, and interviewing techniques. Upon completion, students should be able to prepare a resume, demonstrate appropriate interview techniques, and identify strengths and weaknesses in preparation for certification.

WEB TECHNOLOGIES

WEB 110 Internet/Web Fundamentals

2 2 3

Prerequisites: None Corequisites: None

This course introduces World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded website created with markup language, and effectively use and understand the function of search engines.

WEB 115 Web Markup and Scripting

2 3

Prerequisites: None Corequisites: None

This course introduces Worldwide Web Consortium (W3C) standard client-side Internet programming using industry-established practices. Topics include JavaScript, markup elements, stylesheets, validation, accessibility, standards, and browsers. Upon completion, students should be able to develop hand-coded web pages using current markup standards.

WEB 120 Introduction Internet Multimedia

2 2 3

Prerequisites: None Corequisites: None

This is the first of two courses covering the creation of internet multimedia. Topics include internet multimedia file types, file type conversion, acquisition of digital audio/video, streaming audio/video and graphics animation plug-in programs and other related topics. Upon completion, students should be able to create internet multimedia presentations utilizing a variety of methods and applications.

WEB 140 Web Development Tools

2 2 3

Prerequisites: None Corequisites: None

This course provides an introduction to web development software suites. Topics include the creation of web sites and applets using web development software. Upon completion, students should be able to create entire web sites and supporting applets.

WEB 182 PHP Programming

2 3

Prerequisites: CIS 115 Corequisites: None

This course introduces students to the server-side, HTML-embedded scripting language PHP. Emphasis is placed on programming techniques required to create dynamic web pages using PHP scripting language features. Upon completion, students should be able to design, code, test, debug, and create a dynamic web site using the PHP scripting language.

WEB 210 Web Design

2 3

Prerequisites: None Corequisites: None

This course introduces intermediate to advanced web design techniques. Topics include customer expectations, advanced markup language, multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional web sites.

WEB 230 Implementing Web Server

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Prerequisites: NET 110 or NET 125

Corequisites: None

This course covers website and web server architecture. Topics include installation, configuration, administration, and security of web servers, services and sites. Upon completion, students should be able to effectively manage the web services deployment lifecycle according to industry standards.

WEB 250 Database Driven Websites

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Prerequisites: DBA 110 Corequisites: None

This course introduces dynamic (database-driven) website development. Topics include the use of basic database CRUD statements (create, read, update and delete) incorporated into web applications, as well as in software architecture principles. Upon completion, students should be able to design and develop database driven web applications according to industry standards.

WELDING

WLD 110 Cutting Processes

Prerequisites: None Corequisites: 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.

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WLD 112 Basic Welding Processes

Prerequisites: None Corequisites: 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.

WLD 115 SMAW (Stick) Plate

Prerequisites: None Corequisites: 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.

WLD 116 SMAW (Stick) Plate/Pipe

Prerequisites: WLD 115 Corequisites: 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.

WLD 121 GMAW (MIG) FCAW/Plate

Prerequisites: None Corequisites: None

This course introduces metal are welding and flux core are welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

WLD 122 GMAW (MIG) Plate/Pipe

Prerequisites: WLD 121 Corequisites: None

This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with the GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry.

WLD 131 GTAW (TIG) Plate

Prerequisites: None Corequisites: 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.

WLD 132 GTAW (TIG) Plate/Pipe

Prerequisites: WLD 131 Corequisites: None

This course is designed to enhance skills with the gas tungsten are (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.

WLD 141 Symbols and Specifications

Prerequisites: None Corequisites: 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.

WLD 143 Welding Metallurgy

Prerequisites: None Corequisites: None

This course introduces the concepts of welding metallurgy. Emphasis is placed on basic metallurgy, effects of welding on various metals, and metal classification and identification. Upon completion, students should be able to understand basic metallurgy, materials designation, and classification systems used in welding.

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WLD 145 Thermoplastic Welding

Prerequisites: None Corequisites: None

This course introduces the thermoplastic welding processes and materials identification. Topics include filler material selection, identification, joint design, and equipment setup with emphasis on bead types and applications. Upon completion, students should be able to perform fillet and groove welds using thermoplastic materials.

WLD 151 Fabrication I

Prerequisites: WLD 110 (Local) and WLD 115 (Local)

Corequisites: None

This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, cutting, joining techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.

WLD 215 SMAW (Stick) Pipe Prerequisites: WLD 115 or WLD 116

Corequisites: None

This course covers the knowledge and skills that apply to welding pipe. Topics include pipe positions, joint geometry, and preparation with emphasis placed on bead application, profile, and discontinuities. Upon completion, students should be able to perform SMAW welds to applicable codes on carbon steel pipe with prescribed electrodes in various positions.

WLD 261 Certification Practices

Prerequisites: WLD 115 and WLD 121 and WLD 131

Corequisites: None

This course covers certification requirements for industrial welding processes. Topics include techniques and certification requirements for prequalified joint geometry. Upon completion, students should be able to perform welds on carbon steel plate and/or pipe according to applicable codes.

WLD 262 Inspection and Testing

Prerequisites: None Corequisites: None

This course introduces destructive and non-destructive testing methods. Emphasis is placed on safety, types and methods of testing, and the use of testing equipment and materials. Upon completion, students should be able to understand and/or perform a variety of destructive and non-destructive testing processes.

WHEELS OF LEARNING

WOL 110 Basic Construction Skills

Prerequisites: None Corequisites: None

This course introduces the student to basic safety, tools, and skills commonly found in the construction related trades. Topics include safety, basic math, blueprints, hand and power tools, and rigging. Upon completion, students should have successfully completed the core curricula as identified by the National Center for Construction Education and Research.

ADMINISTRATORS AND FACULTY

Cathy Ackerman
3.A., Bowling Green State University; M.A., UNC-Charlotte; Ph.D., University of South Carolina
Elizabeth Adams
A.A.S., Western Piedmont Community College; B.S., Western Carolina University; M.S., East Carolina University
Library Constitution of Consti
Cathy Alexander
Kim Alexander
A. A., Grand Rapids Community College; B.A., Grand Valley State University; M.M. Aquinas College-Michigan
Kim Amos
DeeDee Barnard
A.A., Isothermal Community College; B.S., Gardner Webb University
Kate Barkschat
3.S., California State College
Elisabeth Barrows
B.A., M.A., Wake Forest University
Alan BeamWebmaste
B.S., Gardner-Webb University
Fimothy D. Beaver
B.S., M.A., Appalachian State University
Susan Benfield
B.S.N., Winston Salem State University; MSN, UNC-Greensboro
Maria Bivins
B.A., North Carolina State University; M.A., University of North Carolina -Charlotte
Peggy Blanton
B.A., M.A.T., Winthrop University
Reagan BowmanFinancial Aid Counsele
A.A.S., Isothermal Community College
Jeff Boyle
B.A., Western Kentucky University; M.A., Clemson University
Machining Technology
Scott Bradey
\$10 PM 0 PM 0 PM PM PM PM PM PM 0 PM 0 PM
Lisa Bridges

Jessica Bruce
A.A., Isothermal Community College; B.S., Liberty University
Robin CanterburyBiology Instruct
B.S., M.S., Appalachian State University; Ph.D., Clemson University
Lisa Canterbury
B.A., UNC - Chapel Hill; M.A., Appalachian State University
Vanessa Capps
A.A., Blue Ridge Community College; B.S., Mars Hill College; M.B.A., North Greenville University

Terry Carter	Foothills Nursing Consortium
Jeanette Murray Cheshire	
Richard Childress	
Rebecca E. S. Cleland	
April Cline	
Lori Clovis	
Miranda Cole	Carolina - Charlotte
Ruth Colnot	Student Activities Coordinator
Amy Cooke	
Jay Coomes	Broadcasting and Production Technology
Tiffany Cooper	ebb University; Certified Professional Coder
Jeremiah Councill	English
Victoria Covington	
Michael Crater	
Doris Crute	, HRD Coordinator
Rhonda L. Davis	; M.A., Appalachian State University; Ed.S., Appalachian State
Ashley Day	Biology
Kelly Dedmon	
Alecia Dorn	rsity of North Carolina – Greensboro
Joel Ekstrom	Financial Aid Counselor
Rick Edwards	
Mark Ellis	

Phillip Fischer	
Nathan Fisher	tor; NCCER Craft Instructor
Dale Gaddis	M.A., University of North Carolina - Greensboro
Jim Garren	Physical Education
B.S., M.A., Appalachian State University Mike Gavin B.A., Emory University	Director of Marketing and Community Relations
Glenn Gibert	Electrical/Electronics Technology
Rick GilbertB.A., University of South Carolina	Director, Basic Law Enforcement Training
Kimberly Gold	Academic & Student Services and Institutional Assessment d.D., Appalachian State University
Judy Gordon	ator, Assessment/Retention & ABE, Continuing Education rsity
Tim Greene	computer Programming/Computer Information Technology ersity, CCNA, CISSP
Matt Guffey	Supplemental Instruction Coordinator
Ted Hamrick	
Rebecca Haney	M.B.A., Gardner Webb University
Kelly HargettDis B.A., University of North Carolina - Charlotte; M.A.Ed., Western Carol	sability Services Coordinator/Advising Center Coordinator ina University
Thad Harrill	y and Workforce Education and Institutional Advancement
Karen M. Harris	Coordinator, Powers Scholarship Program
Susan Hendrick	
Ruth Hils	or, GED Online, Basic Skills Computer Program Specialist
Trisa Hines	bia; M.A. in Adult Education and Administration, Appala-
Steve Hollifield Electronics En A.A.S., Isothermal Community College; B.S., B.S.E.T., University of N	gineering Technology / Computer Engineering Technology North Carolina – Charlotte; M.S., East Carolina University
Donna Hood	
Noelle Hoyle	Biology

Scott Hutchins	ention
Date currency of Form Curonic Charles, Finding Towns 1990 Christing, London Physics Christing	ration
Carl C. Jackson, Jr	ology ificate
Jo James	iology
Melissa JohnsonBusiness Administration/Computer Information Technol., University of North Carolina-Asheville; M.B.A., Gardner-Webb University	ology
Myra B. Johnson	sident
Johnathan Jones	Music
Karen Jones	evices
B.A., Western Carolina University, M.S. Ed., Ed.D., North Carolina State University	LVICES
Kelly Jones	
Sarah Kilgo	/stems
Christine Klahn	mistry
Chris KooneNetworking Technology, Computer Information Technology, Western Carolina University; M.B.A., Golden Gate University; Ed.S., AppalachianState University; CCNA, CCA	nology U
Michael Lipkin	hysics
James Liverett	gineer
Cindy Martin	cation
Stephen Matheny	rvices
Chester MeltonBuilding Construction TechnolBuilding Construction Technol	nology
Kelly Metcalf Re A.A.S., Isothermal Community College	gistrar
Alice McCluney	gement
Terry McEntire	cialist
Cindy Moore	anager
Brett Parker	cience

Chester Peeler	Electronics Engineering Technology / Computer Engineering Technology E.T., Western Carolina University
Amy M. Penson, CPA B.S., UNC-Charlotte	
Tina McKinney Porter	Gardner Webb University Counseling/Health Services Specialist
Deborah Lynne Puett	; B.A., University of North Carolina-Asheville; M.A.Ed., Western Carolina Univer-
John W. Quinley B.A., Bard College, M.Ed., University of Ne Ed.D., North Carolina State University	w Hampshire, M.A., Prescott College; Ed.S., Appalachian State University,
Angela Reid	
Erin Riddle B.S., Western Carolina University; M.A., Ap	palachian State University Early Childhood Education / School-Age Education
Lee Roach Mechanical I A.A.S., Isothermal Community College; B.S	Engineering Technology / Manufacturing Technology / Industrial Systems Technology E.T., M.S., Western Carolina University
Lynn Rowland	tanburg; B.S.N. and M.S.N, Gardner Webb University
B.S.N., M.S.N., UNC - Greensboro	
Michael Saunders	
Johnny Smith	palachian State University Dean, Learning Support and Retention
Loreen SmithB.A., Stony Brook University; B.A. and M.I	English Georgia State University
Ngina Smith	S.N., UNC-Charlotte, MSN, East Carolina University
Kimberly Snyder B.S., Gardner Webb University; M.A., Appa	lachian State University; N.C.C; L.P.C.
James Spratt B.S., Western Carolina University, M.S., We	stern Carolina University
Karen Spratt	Western Carolina University Academic Development Mathematics
Helen StewartB.A., University of North Carolina-Ashevill	e; M.S., Western Carolina University
Susan Straw	
Marisa Sudano	University of Minnesota; M.B.A., St. Cloud State University
Amber Thompson	e; B.S., Appalachian State University; M.S.T., Western Carolina University; ER Core Instructor

Connie Toney
E. Engle Troxler
Tommy Tucker
Curtis Vance
Pat Wall
Robby Walters
Bret Watson
Dana Whitehair
Traci Whitton
Charles P. Wiggins
Robin Wiggins
Russell Wicker
Deborah Wiltshire
Carolyn YoungBroadcasting and Production Technology B.A., Muskingum College

Appendix A-General Education Competencies

GENERAL COMPETENCIES EXPECTED OF ISOTHERMAL GRADUATES

Because we believe an education is more than an accumulation of credits earned through completion of a variety of courses, and because we want graduates of our programs to be successful at whatever their next step may be—either getting a job or transferring to another college—, it is essential that they exhibit the general education skills described on the following pages. All of these skills are basic to getting along in the world of work. They are skills employers tell us they want most in people they hire. They are skills necessary to success in daily life. Our expected general education outcomes are as follows:

- Communicate effectively through writing, reading, speaking, and listening, and through demonstration of information literacy
- · Analyze problems and make logical conclusions
- · Demonstrate positive interpersonal skills through cooperative learning and group interaction
- · Demonstrate quantitative competencies
- Demonstrate basic computer skills
- · Understand global awareness
- · Perform technical skills in a chosen occupation

Criteria for achieving these outcomes were developed by campus-wide assessment teams and have been adopted for use in all curriculum programs throughout the college. On the following pages, we provide these criteria in the form of assessment rubries. Your instructors will be using these to assess your work.

WHAT STUDENTS CAN EXPECT OF ISOTHERMAL

In their commitment to learning and to the achievement of a true learning-centered community, Isothermal personnel will:

- · Meet student needs by demonstrating professional, friendly, and courteous service in all aspects of student life
- · Maintain high professional and academic standards
- · Serve as role models in the development of leadership skills
- · Respect diversity and treat all students fairly
- · Be available to students and helpful with student problems
- · Communicate clear learning objectives and expected outcomes
- · Provide timely feedback in the assessment of learning outcomes
- · Stay current in subject matter
- Practice effective teaching/learning strategies that promote critical thinking

WHAT ISOTHERMAL EXPECTS OF STUDENTS

In their commitment to learning, students will:

- · Accept responsibility for learning
- · Attend and participate in all classes
- · Complete required exercises and assignments as directed
- · Develop a time management plan that includes adequate time for study
- · Maintain an open-minded attitude toward learning
- · Strive to become independent critical thinkers
- · Seek help as needed from appropriate sources
- · Be respectful and considerate of others
- Assume responsibility for knowing and adhering to all college policies
- Acknowledge that learning how to learn is the ultimate objective of education
- Recognize that struggle and discomfort often precede the rewards that accompany goal completion and success

With this commitment on the part of all concerned, an exciting partnership will grow and thrive, thus creating a community of learners whose mission is to improve life through learning.



Writing Rubric

Student	Assignment					
Course						
7	1 low	2	3	4 high	Comments	
ACHIEVES THE INTENDED PURPOSE IN THE WRITING TASK						
Demonstrates awareness of purpose and audience Fulfills assignment directions Adheres to manuscript form						
FULLY AND SPECIFICALLY DEVELOPS IDEAS						
Formulates a focused and defendable thesis Includes an effective introduction and conclusion Adequately develops the thesis with specific support Presents ideas that are clear, insightful, and thought-provoking						
ORGANIZES IDEAS EFFECTIVELY		, ,				
Organizes major ideas logically and consistently Organizes supporting ideas logically and consistently Provides transitions which smoothly link ideas Maintains a clear focus						
ADHERES TO RULES IN MECHANICS AND STYLE						
Proofreads to ensure correctness Uses correct and varied sentence structure Uses standard English Uses language which is clear, concise, and appropriate						

OVERALL COMMENTS:

Rev. 4/07



Writing Rubric for Researched Essays

Student	Date					
Course	Assignment					
	1 low	2	3	4 high	Comments	
ACHIEVES THE INTENDED PURPOSE IN THE WRITING TASK						
Demonstrates awareness of purpose and audience Fulfills assignment directions Adheres to manuscript form						
FULLY AND SPECIFICALLY DEVELOPS IDEAS						
Formulates a focused and defendable thesis Includes an effective introduction and conclusion Adequately develops the thesis with specific and accurate support Presents ideas that are clear, insightful, and thought-provoki	ing					
ORGANIZES IDEAS EFFECTIVELY						
Organizes major ideas logically and consistently Organizes supporting ideas logically and consistently Provides transitions which smoothly link ideas Maintains a clear focus						
ADHERES TO RULES IN MECHANICS AND STYLE						
Proofreads to ensure correctness Uses correct and varied sentence structure Uses standard English Uses language which is clear, concise, and appropriate						
INCORPORATES/DOCUMENTS BORROWED INFORMATION CORRECTL	Y					
Determines credibility of sources Includes research to substantiate major points Provides analysis/interpretation of evidence as it relates to the Incorporates borrowed information correctly Documents borrowed information correctly	esis					

OVERALL COMMENTS:

Rev. 4/07 Global Awareness Rubric Rev. 4/09



Reading Rubric

Student	Date					
Course						
	1 low	2	3	4 high	Comments	
DEMONSTRATES COMPREHENSION OF TEXT						
Uses terminology correctly						
Recognizes main ideas and supporting details						
Recognizes patterns of organization, transitions, and relationships among ideas						
Summarizes, outlines and/or maps information accurately and thoroughly						
DEMONSTRATES CRITICAL THINKING						
Consistently distinguishes between fact and opinion						
Makes accurate and insightful inferences and predictions solidly based on evidence						
Draws insightful analogies between written material and experience						
Recognizes writer's purpose, bias, tone, point of view, and style						
Shows insightful understanding of implied levels of meaning in connotations and figures of speech						
DEMONSTRATES ABILITY TO EVALUATE TEXT						
Identifies writer's arguments and the most important assumptions and support on which they are based						
Shows awareness of the characteristics of reliable sources an plausible evidence	d					
When appropriate, demonstrates awareness of elements of literary writing such as plot, character, and effective word choice.						

195

OVERALL COMMENTS:



Speaking Rubric

Student	Da	te	-		
Course	As	signm	ent_		
Purpose	1 low	2	3	4 high	Comments
Introduction					
Gains attention and interest					
Introduces topic clearly					
Previews the main points					
Engages the audience					
Establishes credibility					
Вору			_	17-3-37	
Presents main points clearly					
Develops main points fully and specifically				,	
Organizes main points logically					
Provides transitions which smoothly link ideas					
DELIVERY					
Uses correct and appropriate English					
Maintains eye contact					
Uses voice effectively					
Uses visual aids well					
Uses nonverbal communication effectively: gestures, facial expression, stance, and dress					
CONCLUSION					
Signals ending for the audience			-		
Summarizes main points and/or offers an action plan					
OVERALL ASSESSMENT					
Engages audience through entire speech					
Adapts speech to audience					
Conforms to time requirements					
Maintains credibility throughout speech					

OVERALL COMMENTS:

Rev. 4/07



Listening Self-Evaluation

bits? Che	eck yours								
	ck yours	self care	fully on e	ach one					
					:				
A Vandaria Control	Frequency								
Almost	Usually	Some- times	Seldom	Almost never	Score				
				Tota					
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Almost always Usually Some Seldom Almost never on times Seldom Seldom never on the speaker says of the speaker says									
8									
II.		g.							
ceptionally	well.								
	2 4 6 8 10 s of training	2 4 6 8 10 s of training in listening	2 4 6 8 10 s of training in listening.	2 4 6 8 10 s of training in listening.	Total 2 4 6 8 10 s of training in listening.				

Taken from: Lucas, Stephen E. *The Art of Public Speaking.* g^{th} *ed.* Boston: McGraw Hill, 2007. p. 63.



Information Literacy Rubric

Student	Date				
Course	Assignment				
	1 low	2	3	4 high	Comments
DETERMINES THE NATURE AND EXTENT OF THE INFORMATION NEEDED		17. 22.		arootronaa.	
Establishes the purpose and need for information Achieves a manageable focus					
ACCESSES NEEDED INFORMATION EFFECTIVELY AND EFFICIENTLY					
Determines effective search terms (keywords and synonyms) Retrieves, records, and manages information from a variety of sources Records citation information					
EVALUATES INFORMATION USING ESTABLISHED CRITERIA					
Differentiates between primary and secondary sources Evaluates validity, accuracy, authority, timeliness, bias, etc. Identifies the main ideas to be extracted from the information					
USES INFORMATION EFFECTIVELY TO ACCOMPLISH A SPECIFIC PURPO	SE		-		
Applies new and prior information to the planning and creation the paper or project	of				
Organizes information logically					
ACCESSES AND USES INFORMATION ETHICALLY AND LEGALLY					
Follows laws, institutional policies, and etiquette related to information resources Incorporates borrowed information correctly Documents borrowed information correctly					
Understands and does not commit plagiarism					

OVERALL COMMENTS:

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Problem Solving Rubric

Student	Date				
Course	Assignment				
	1 low	2	3	4 high	Comments
DEMONSTRATES AN UNDERSTANDING OF PROBLEM ANALYSIS					
Accurately and thoroughly identifies and defines the key elements of the problem					
Clearly and accurately restates the problem					
DEMONSTRATES DATA ACQUISITION					
Clearly identifies and uses appropriate methods of data acquisition					
Accurately selects and uses credible sources of appropriate data					
Collects and identifies relevant facts, concepts, or principles with no apparent errors					
DEMONSTRATES PROPER DATA UTILIZATION					
Gives accurate account of data collected					
Accurately converts all data into usable information					
Uses data to clearly address all elements of the problem					
ARRIVES AT VALID CONCLUSIONS					
Develops a solution that is complete and appears to need no further revision, or revises the solution and addresses all the major difficulties					
Clearly and accurately implements selected solution					

OVERALL COMMENTS:



Interpersonal Skills Rubric Observation Form

Student Date			ate			
Course		Assi	Assignment			
NAMES:						
SUPPORTS AND PRAISES						
ENCOURAGES PARTICIPATION						
CHECKS FOR UNDERSTANDING						
KEEPS ON TASK						
ASSESSMENT G	UIDELINES					
	1 low	2	3	4 high		
SUPPORTS AND PRAISES	Seldom offers positive reinforcement for good ideas or behaviors	Sometimes offers positive reinforcement for good ideas or behaviors	Usually offers positive reinforcement for good ideas or behaviors	Almost always offers positive reinforcement for good ideas or behaviors		
Encourages Participation	Seldom asks for any other group member's input	Sometimes asks for input from others	Usually asks for input from others	Almost always makes sure all members contribute to decisions		
CHECKS FOR UNDERSTANDING	Seldom makes sure I am understood and understand others	Sometimes makes sure I am understood and understand others	Usually makes sure I am understood and understand others	Almost always makes sure I am understood and understand others		
KEEPS ON TASK	Often encourages the group to go off task to social or personal topics	Sometimes lets the group go off task to social or personal topics	Rarely lets the group go off task to social or personal topics	Almost never lets the group go off task to social or personal topics		

COMMENTS:



Quantitative Skills Rubric

Student	Date			
Course	Assignment	_		

OUTCOME	1 low	2	3	4 high
DEMONSTRATES BASIC ARITHMETIC SKILLS	Cannot perform basic arithmetic skills	Performs some arithmetic operations correctly but cannot complete the problem	Performs most arithmetic operations correctly with minor mistakes	Performs basic arithmetic operations with 100% accuracy
USES CORRECT PROCESSES AND MODELS TO SOLVE PROBLEMS	Unable to begin the problem	Understands the basics of the problem, but cannot translate information into a format that leads to a solution	Understands the problem, translates information into a solvable format, and solves the problem; May have minor arithmetic or translation errors	Understands the problem, analyzes information, translates into a solvable format, correctly solves the problem and accurately translates the results
USES QUANTITATIVE LANGUAGE IN ORAL AND WRITTEN COMMUNICATION	Cannot use appropriate quantitative language	Appropriately uses quantitative language at a basic level in oral and written communication	Appropriately uses basic and some advanced quantitative language in oral and written communication	Appropriately uses advanced quantitative language in all oral and written work
APPLIES QUANTITATIVE CONCEPTS TO REAL - WORLD SITUATIONS	Unable to begin the problem	Understands basic concepts, and can identify relevant data, but cannot select an appropriate model	Understands the problem, identifies relevant data, selects an appropriate model, but cannot consistently obtain and describe results	Understands the problem, identifies relevant data, and selects an appropriate model; Can obtain and accurately describe results and draw inferences
CREATES AND/OR INTERPRETS GRAPHS, TABLES, AND DIAGRAMS	Cannot provide any information about the graph	Can accurately read and interpret graphs, tables, or diagrams	Can accurately read, interpret, and create graphs, tables, or diagrams	Can accurately read, interpret, and create graphs, tables, or diagrams, and can use them to solve problems or predict change

COMMENTS:

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Computer Skills Rubric

Student	Date				
Course	Assignment				
	1 low	2	3	4 high	Comments
DEMONSTRATES AN UNDERSTANDING OF COMPUTER CONCEPTS AND TERMINOLOGY SUFFICIENT TO:					
Purchase a computer					
Install a computer					
Maintain a computer					
DEMONSTRATES BASIC COMPUTER OPERATING SKILLS SUFFICIENT T	0:				
Start and stop a computer					
Start and stop a program					
Use the keyboard and mouse with accuracy					
Demonstrate file and disk management					
PERFORMS COMPUTER APPLICATIONS SUFFICIENT TO UTILIZE:					
Word processing (create and edit documents; store and retrieve documents; print documents)					
Spreadsheet (create and edit documents; store and retrieve documents; print documents)	,				
Database (create, store, and retrieve a database; add, remove, and edit records; design, save, and use reports; create, save, and use queries; print reports and queries)					
DEMONSTRATES INTERNET SKILLS SUFFICIENT TO:			194		
Perform research					
Utilize e-mail as a form of communication (establish an address, receive messages, send messages, reply to messages, forward messages, attach files to a message)					

OVERALL COMMENTS:



Student

Global Awareness Rubric

Course			Assignment				
his competency measures global laces, and events on earth from a	awareness as re current as well a	cognizing th s historical	e intercon perspectiv	nectedness and inte	rdependence of persons,		
IN REGARD TO BASIC TERMS AND CONCEPTS, THE STUDENT	1 Recognizes	2 Defines	3 Uses	4 Evaluates/ synthesizes high	Comments		
Demonstrates knowledge of societal structures of his/her national culture and other cultures							
Demonstrates knowledge of the critical global issues affecting the world today ²	1						
Recognizes how cultures have changed over time							
Describes and analyzes the impact of culture and cultural differences on the course of world human events							

OVERALL COMMENTS:

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¹ This includes the arts, literature, economics, history, philosophy, politics, religion, and family.
² These may include education, environment, health care, human and civil rights, infrastructure, nuclear proliferation, population, poverty, intellectual property rights, terrorism, and ethnic and tribal conflict.

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WHO TO SEE

Isothermal Community College phone number is 828-286-3636. Extensions listed below.

IF YOU NEED:	GO TO:	LOCATED IN:
Academic record	Student Services Ext. 267	Student Center
Academic advising	Your Advisor	
Non-credit course	Continuing Education Ext. 316	The Foundation
Books to purchase	Bookstore Ext. 327	Student Center
Career assistance	Learning Support and Retention Ext. 244	Student Center
Complaints & Student Conduct	Student Service Ext. 239	Student Center
Complete High School	Continuing Education Ext. 368	The Foundation
Counseling	Learning Support and Retention Ext. 422	Student Center
Courses - registering	Your Advisor	
Courses - schedule adjustments	Departmental Secretary	
Curriculum changes	Admissions Office Ext. 251	Student Center
Disability Services	Learning Support and Retention Ext. 442	Student Center
Emergency Assistance	9-911 if you are using campus telephone system and Campus Enforcement 828-289-5850	Student Center
English As A Second Language	Continuing Education Ext. 274	The Foundation
Financial aid	Financial Aid Office Ext. 491	Student Center
Graduation application	Student Services Ext, 267	Student Center
Graduation information	Your Advisor	
Graduation orders	Bookstore Ext, 327	Student Center
In-state/out-of-state tuition status	Admissions Office Ext. 251	Student Center
Lost and found	Student Services Secretary or Receptionist/Switchboard	
Name/address changes	Student Services Office Ext. 251	Student Center
Organize a student activity	Student Activities Coordinator Ext. 489	Student Center
Transcripts	Records Office Ext. 267	Student Center
Tuition, fees, payments	Business Office Ext. 209	Administration
Supplemental Instruction	Supplemental Instruction Coord. Ext. 265	Lifelong Learning Center
Withdraw from College	Your Advisor 206	

THERMAL

Customized Training & Dev. Room Broadcasting & Production Tech. Advertising & Graphic Design Electrical Technology Campus Print Shop WWW WILDS

AS-Applied Sciences & Technology

BLET

Computer Engineering Technology Foothills Nursing Consortium Electronics Technology Practical Nursing Early Childhood Oriminal Justice

SSCI-Bush

Computer Programming Technology Computer Information Technology Information Systems Technology CON-Building Construction Tech. Medical Office Administration siness Administration Networking Technology Office Administration use Room Red Room

MNTN-Maintenance

Web Technology

College Vehicle Reserve Shipping & Receiving

LLC-Lifelong Learning Center

Arts & Sciences Faculty REACH

[White House]

English as a Second Language

ASSET/COMPASS Placement Testing

Arts & Sciences Dean

Admissions Office

Campus Resource Officer

Career Center

College Café

Campus Bookstone

Employee Fitness Center

COS-Cosmetology

Financial Aid Office

Gym & Pool

PED-Physical Education

Wisitor Information

Student Services

SCTR-Student Center



Library Auditorium

Computer Lab

Old Tryon Room

sment, Research, 8 Pi

ness Office Computer Lab Public Information Office

Web Master

Presidential Office Suite

furnan Resources

Pottery & Ceramics Metrology Lab

IT-Information Technology IT Department Mechanical Drafting Technology

Mechanical Engineering Technology MACH-Machining Technology Manufacturing Technology

FNDM-The Foundation Customized Training & Development Basic Skills/Adolt High School/GED Continuing Education Small Business Center Second & Third Floor Visitor Information Sage Truck Driving Defensive Driving Ground Floor Box Office

Performing Arts & Conference Center Seminar Rooms A & B B

IMPROVE LIFE THROUGH LEARNING



Rutherford Campus 286 ICC Loop Road, P.O. Box 804 Spindale, North Carolina 28160-0804 828-286-3636 Polk Center 1255 W. Mill Street Columbus, North Carolina 28722-9445 828-894-3092

www.isothermal.edu

