

2008-2009

ACADEMICALLY RELATED

ACA 090 Study Skills

Prerequisite: None

Corequisite: None

This course is intended for those who place into credit-level course work but who are not maintaining satisfactory academic progress toward meeting program goals. Topics include study skills, note taking, learning styles and strategies, test taking, goal setting, and self-assessment skills. Upon completion, students should be able to manage their learning experiences to successfully meet educational goals. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ACA 111 College Student Success

Prerequisite: None

Corequisite: None

This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal-setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives. Course Hours Per Week: Class, 1. Semester Hours Credit, 1.

ACA 118 College Study Skills

Prerequisite: None

Corequisite: None

This course covers skills and strategies designed to improve study behaviors. Topics include time management, note taking, test taking, memory techniques, active reading strategies, critical thinking, communication skills, learning styles, and other strategies for effective learning. Upon completion, students should be able to apply appropriate study strategies and techniques to the development of an effective study plan. Emphasis is on providing job-specific information to assist students in identifying their career goals through applying critical thinking skills to values clarification. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

New Course

ACA 122 College Transfer Success

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 to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 1. Semester Hours Credit, 1.

ACCOUNTING

ACC 120 Principles of Financial Accounting

Prerequisites: ENG 090, MAT 070, and RED 090

Corequisite: None

This course introduces business decision-making accounting information systems. Emphasis is on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ACC 121 Principles of Managerial Accounting

Prerequisite: ACC 120

Corequisite: None

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ACC 129 Individual Income Taxes

Prerequisite: ENG 090, MAT 070, and RED 090

Corequisite: None

This course introduces the relevant laws governing individual income taxation. Topics include tax law, electronic research and methodologies, and the use of technology for preparation of individual tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various individual tax forms. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

ACC 130 Business Income Taxes

Prerequisite: ACC 129

Corequisite: None

This course introduces the relevant laws governing business and fiduciary income taxes. Topics include tax law relating to business organizations, electronic research and methodologies, and the use of technology for the preparation of business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax law, and complete various business tax forms. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

ACC 140 Payroll Accounting

Prerequisites: ACC 120 and CIS 110

Corequisite: None

This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

ACC 150 Accounting Software Applications

Prerequisites: ACC 120 and CIS 110

Corequisite: None

This course introduces microcomputer applications related to the major accounting systems. Topics include general ledger; accounts receivable; accounts payable; inventory; payroll; and correcting, adjusting, and closing entries. Upon completion, students should be able to use a computer accounting package to solve accounting problems. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

ACC 220 Intermediate Accounting I

Prerequisites: ACC 121 and CTS130

Corequisite: None

This course is a continuation of the study of accounting principles with in-depth coverage of theoretical concepts and financial statements. Topics include generally accepted accounting principles and an extensive analyses of financial statements. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ACC 221 Intermediate Accounting II

Prerequisite: ACC 220

Corequisite: None

This course is a continuation of ACC 220. Emphasis is on special problems which may include leases, bonds, investments, ratio analyses, present value applications, accounting changes, and corrections. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered. Accounting computer problems involving preparation and completion of spreadsheets are integrated throughout the course. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ACC 225 Cost Accounting

Prerequisites: ACC 121 and CTS130

Corequisite: None

This course introduces the nature and purposes of cost accounting as an information system for planning and control. Topics include direct materials, direct labor, factory overhead, process, job order, and standard cost systems. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered. Accounting computer problems involving preparation and completion of spreadsheets are integrated throughout the course. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ACC 226 Advanced Managerial Accounting

Prerequisites: ACC 121 and ACC 225

Corequisite: None

This course is designed to develop an appreciation for the uses of cost information in the administration and control of business organizations. Emphasis is on how accounting data can be interpreted and used by management in planning and controlling business activities. Upon completion, students should be able to analyze and interpret cost information and present this information in a form that is usable by management. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ACC 227 Practices in Accounting

Prerequisites: ACC 129, ACC 220, and CTS 130

Corequisite: None

This course provides an advanced in-depth study of selected topics in accounting using case studies and individual and group problem solving. Topics include cash flow, financial statement analysis, individual and group problem solving, practical approaches to dealing with clients, ethics, and critical thinking. Upon completion, students should be able to demonstrate competent analytical skills and effective communication of their analysis in written and/or oral presentations. As part of this course, students may be required to prepare a sample joint income tax return for a married couple, establish and use an accounting system, and use a microcomputer to record accounting information. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ACC 240 Government and Not-for-Profit Accounting

Prerequisite: ACC 121

Corequisite: None

This course introduces principles and procedures applicable to governmental and not-for-profit organizations. Emphasis is on various budgetary accounting procedures and fund accounting. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ACC 250 Advanced Accounting

Prerequisite: ACC 220

Corequisite: None

This course is designed to analyze special accounting issues, which may include business combinations, partnerships, international accounting, estates, and trusts. Emphasis is on analyzing transactions and preparing working papers and financial statements. Upon completion, students should be able to solve a wide variety of problems by advanced application of accounting principles and procedures. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ACC 269 Audit and Assurance Services

Prerequisite: ACC 220

Corequisite: None

This course introduces selected topics pertaining to the objectives, theory, and practices in engagements providing auditing and other assurance services. Topics include planning, conducting, and reporting, with emphasis on the related professional ethics and standards. Upon completion, students should be able to demonstrate an understanding of the types of professional services, the related professional standards, and the engagement methodology.

Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

AIR CONDITIONING, HEATING, AND REFRIGERATION**AHR 110 Intro to Refrigeration**

Prerequisite: MAT 060, RED 070, or satisfactory score on placement test

Corequisite: None

This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle;

and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade. Course Hours Per Week: Class, 2; Lab, 6; Semester Hours Credit, 5.

AHR 112 Heating Technology

Prerequisite: MAT 060, RED 070, or satisfactory score on placement test

Corequisite: None

This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system. Course Hours Per Week: Class, 2; Lab, 4; Semester Hours Credit, 4.

ANTHROPOLOGY

ANT 210 General Anthropology

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: 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 to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ANT 220 Cultural Anthropology

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces the nature of human culture. Emphasis is on cultural theory, methods of fieldwork, and cross-cultural comparisons in the area 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 to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ARCHITECTURE

ARC 111 Introduction to Architectural Technology

Prerequisite: None

Corequisite: None

This course introduces basic architectural drafting techniques, lettering, use of architectural and engineer scales, and sketching. Topics include orthographic, isometric, 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. Course Hours Per Week: Class, 1. Lab, 6. Semester Hours Credit, 3.

ARC 112 Construction Materials and Methods

Prerequisite: None

Corequisite: None

This course introduces construction materials and their methodologies. Topics include construction terminology, materials and their properties, manufacturing processes, construction techniques, and other related topics. Upon completion, students should be able to detail construction assemblies and identify construction materials and properties. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ARC 113 Residential Architectural Technology

Prerequisite: ARC 111 and ARC 112

Corequisite:

This course covers intermediate residential working drawings. Topics include residential plans, elevations, sections, details, schedules, and other related topics. Upon completion, students should be able to prepare a set of residential working drawings that are within accepted architectural standards. Course Hours Per Week: Class, 1. Lab, 6. Semester Hours Credit, 3.

ARC 114 Architectural CAD

Prerequisite: None

Corequisite: None

This course introduces basic architectural CAD techniques. Topics include basic commands and system hardware and software. Upon completion, students should be able to prepare and plot architectural drawings to scale within accepted architectural standards. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

ARC 119 Structural Drafting

Prerequisites: ARC 113 and MAT 121

Corequisite: None

This course introduces basic concepts associated with sizing and detailing structural assemblies. Topics include vocabulary, span-to-depth ratios, code requirements, shop drawings, and other related topics. Upon completion, students should be able to perform simple calculations and prepare shop drawings and preliminary structural plans. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

ARC 131 Building Codes

Prerequisites: ARC 112

Corequisite: None

This course covers the methods of researching building codes for specific projects. Topics include residential and commercial building codes. Upon completion, students should be able to determine the code constraints governing residential and commercial projects. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

ARC 132 Specifications and Contracts

Prerequisite: ARC 112

Corequisite: None

This course covers the development of written specifications and the implications of different contractual arrangements. Topics include specification development, contracts, bidding material research, and agency

responsibilities. Upon completion, students should be able to write a specification section and demonstrate the ability to interpret contractual responsibilities. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

ARC 211 Light Construction Technology

Prerequisite: ARC 111 and ARC 112

Corequisite: None

This course covers working drawings for light construction. Topics include plans, elevations, sections, and details; schedules; and other related topics. Upon completion, students should be able to prepare a set of working drawings that are within accepted architectural standards. Course Hours Per Week: Class, 1. Lab, 6. Semester Hours Credit, 3.

ARC 212 Commercial Construction Technology

Prerequisite: ARC 111 and ARC 112

Corequisite:

This course introduces regional construction techniques for commercial plans, elevations, sections, and details. Topics include production of a set of commercial contract documents and other related topics. Upon completion, students should be able to prepare a set of working drawings in accordance with building codes. Course Hours Per Week: Class, 1. Lab, 6. Semester Hours Credit, 3.

ARC 213 Design Project

Prerequisites: ARC 111, ARC 112 and ARC 114

Corequisite: None

This course provides the opportunity to design and prepare a set of contract documents within an architectural setting. Topics include schematic design, design development, construction documents, and other related topics. Upon completion, students should be able to prepare a set of commercial contract documents. Course Hours Per Week: Class, 2. Lab, 6. Semester Hours Credit, 4.

ARC 220 Advanced Architectural CAD

Prerequisite: ARC 114

Corequisite: None

This course provides file management, productivity, and CAD customization skills. Emphasis is on developing advanced proficiency techniques. Upon completion, students should be able to create prototype drawings and symbol libraries, compose sheets with multiple details, and use advanced drawing and editing commands. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

ARC 221 Architectural 3-D CAD

Prerequisite: ARC 114

Corequisite: None

This course introduces architectural three-dimensional CAD applications. Topics include three-dimensional drawing, coordinate systems, viewing, rendering, modeling, and output options. Upon completion, students should be able to prepare architectural three-dimensional drawings and renderings. Course Hours Per Week: Class, 1. Lab 4, Semester Hours Credit, 3.

ARC 230 Environmental Systems

Prerequisites: ARC 111 and MAT 121

Corequisite: None

This course introduces plumbing, mechanical (HVAC), and electrical systems for the architectural environment. Topics include basic plumbing, mechanical, and electrical systems for residential and/or commercial buildings with an introduction to selected code requirements. Upon completion, students should be able to develop schematic drawings for plumbing, mechanical, and electrical systems and perform related calculations. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

ARC 235 Architectural Portfolio

Prerequisite: ARC 111

Corequisite: None

This course covers the methodology for creating an architectural portfolio. Topics include preparation of marketing materials and a presentation strategy using conventional and/or digital design media. Upon completion, students should be able to produce an architectural portfolio of selected projects. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

ARC 236 Architectural Mechanics/Electronics Technology

Prerequisite: ARC 230

Corequisite: None

This course covers the production of working drawings for plumbing, mechanical, and electrical (PME) systems for buildings. Topics include PME working drawing development. Upon completion, students should be able to produce PME working drawings and schedules. Course Hours Per Week: Lab, 4. Semester Hours Credit, 2.

ARC 240 Site Planning

Prerequisite: ARC 111

Corequisite: None

This course introduces the principles of site planning, grading plans, and earthwork calculations. Topics include site analysis, site work, site utilities, cut and fill, soil erosion control, and other related topics. Upon completion, students should be able to prepare site development plans and details as well as perform cut and fill calculations. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

ARC 263 Introduction to ADA Title III

Prerequisite: ARC 211

Corequisite: None

This course introduces the American Disabilities Act Title III requirements. Emphasis is on Title III requirements as they apply to building construction. Upon completion, students should be able to interpret and apply Title III requirements to buildings. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

ART

ART 111 Art Appreciation

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces the origins and historical development of art. Emphasis is on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ART 114 Art History Survey I

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course covers the development of art forms from ancient times to the Renaissance. Emphasis is on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. This course includes but is not limited to the art of Ancient Egypt, Greece and Rome, the Byzantine era, and the “Gothic” time period. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ART 115 Art History Survey II

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course covers the development of art forms from the Renaissance to the present. Emphasis is on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. This course includes but is not limited to the art of the Renaissance and Baroque periods, Romanticism, Impressionism, and various movements of the 20th century. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ART 117 Non-Western Art History

Prerequisite: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces non-Western cultural perspectives. Emphasis is on, but not limited to, African, Oriental, and Oceanic art forms throughout history. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of non-Western social and cultural development. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ART 131 Drawing I

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces the language of drawing and the use of various drawing materials. Emphasis is on drawing techniques, media, and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 6. Semester Hours Credit, 3.

ART 132 Drawing II

Prerequisites: ART 131

Corequisite: None

This course continues instruction in the language of drawing and the use of various materials. Emphasis is placed on experimentation in the use of drawing techniques, media, and graphic materials. Upon completion, students should be able to demonstrate increased competence in the expressive use of graphic form and techniques. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Lab, 6. Semester Hours Credit, 3.

AUTOMOTIVE SYSTEMS

AUT 110 Intro to Auto Technology

Prerequisites: None

Corequisites: None

This course covers workplace safety, hazardous material and environmental regulations, use of hand tools, service information resources, basic concepts, systems, and terms of automotive technology. Topics include familiarization with vehicle systems along with identification and proper use of various automotive hand and power tools. Upon completion, students should be able to describe safety and environmental procedures, terms associated with automobiles, identify and use basic tools and shop equipment. Course Hours Per Week: Class, 2; Lab, 2; Semester Hours Credit, 3.

AUT 114 Safety and Emissions

Prerequisites: None

Corequisites: None

This course covers the laws, procedures, and specifications needed to perform a North Carolina State Safety and Emissions inspection. Topics include brake, steering and suspension, lighting, horn, windshield wiper, tire, mirrors, and emission control devices inspection. Upon completion, students should be able to perform complete and thorough North Carolina State Safety and Emissions inspections. Course Hours Per Week: Class, 1; Lab, 2; Semester Hours Credit, 2.

AUT 116 Engine Repair

Prerequisites: None

Corequisites: None

This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information. Course Hours Per Week: Class, 2; Lab, 3; Semester Hours Credit, 3.

AUT 141 Suspension & Steering Sys

Prerequisites: None

Corequisites: None

This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair

steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels.
Course Hours Per Week: Class, 2; Lab, 3; Semester Hours Credit, 3.

AUT 151 Brake Systems

Prerequisites: None

Corequisites: None

This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic, vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

AUT 161 Basic Auto Electricity

Prerequisites: None

Corequisites: None

This course covers basic electrical theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of batteries, starters, and alternators. Topics include Ohm's Law, circuit construction, wiring diagrams, circuit testing, and basic troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair basic wiring, battery, starting, charging, and electrical concerns. Course Hours Per Week: Class, 4; Lab, 3; Semester Hours Credit, 5.

AUT 163 Adv Auto Electricity

Prerequisites: AUT 161

Corequisites: None

This course covers electronic theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of electronics, lighting, gauges, horn, wiper, accessories, and body modules. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, and troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns. Course Hours Per Week: Class, 2; Lab, 3; Semester Hours Credit, 3.

AUT 171 Auto Climate Control

Prerequisites: None

Corequisites: None

This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis/repair of climate control systems. Topics include diagnosis and repair of climate control components and systems, recovery/recycling of refrigerants, and safety and environmental regulations. Upon completion, students should be able to describe the operation, diagnose, and safely service climate control systems using appropriate tools, equipment, and service information. Course Hours Per Week: Class, 2; Lab, 4; Semester Hours Credit, 4.

AUT 181 Engine Performance 1

Prerequisites: None

Corequisites: None

This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information. Course Hours Per Week: Class, 2; Lab, 3; Semester Hours Credit, 3.

AUT 182 Engine Performance-Electrical Lab

Prerequisite: None

Corequisite: AUT 181

AUT 183 Engine Performance 2

Prerequisites: AUT 181

Corequisites: None

This course covers study of the electronic engine control systems, the diagnostic process used to locate engine performance concerns, and procedures used to restore normal operation. Topics will include currently used fuels and fuel systems, exhaust gas analysis, emission control components and systems, OBD II (on-board diagnostics) and inter-related electrical/electronic systems. Upon completion, students should be able to diagnose and repair complex engine performance concerns using appropriate test equipment and service information. Course Hours Per Week: Class, 2; Lab, 6; Semester Hours Credit, 4.

AUT 211 Automotive Machining

Prerequisites: None

Corequisites: None

This course covers engine machining processes for remanufacturing automotive engines. Emphasis is on cylinder head service, machining block surfaces, reconditioning connecting rod assemblies, camshafts, flywheels, and precision measurement. Upon completion, students should be able to explain the operation and proper use of automotive machining equipment. Course Hours Per Week: Class, 2; Lab, 6; Semester Hours Credit, 4.

AUT 221 Auto Transm/Transaxles

Prerequisites: None

Corequisites: None

This course covers operation, diagnosis, service, and repair of automatic transmissions/transaxles. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair automatic drive trains. Course Hours Per Week: Class, 2; Lab, 3; Semester Hours Credit, 3.

As of Jan 2008, hours change to 2-3-3

AUT 231 Man Trans/Axles/Drtrains

Prerequisites: None

Corequisites: None

This course covers the operation, diagnosis, and repair of manual transmissions/transaxles, clutches, driveshafts, axles, and final drives. Topics include theory of torque, power flow, and manual drive train servicing and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to

explain operational theory, diagnose and repair manual drive trains. Course Hours Per Week: **Class, 2; Lab, 3**
Semester Hours Credit, 3

AUT 281 Adv Engine Performance

Prerequisites: None

Corequisites: None

This course utilizes service information and specialized test equipment to diagnose and repair power train control systems. Topics include computerized ignition, fuel and emission systems, related diagnostic tools and equipment, data communication networks, and service information. Upon completion, students should be able to perform diagnosis and repair. Course Hours Per Week: Class, 2; Lab, 2; Semester Hours Credit, 3.

AUT 283 Adv Auto Electronics

Prerequisites: AUT 161

Corequisites: None

This course covers advanced electronic systems on automobiles. Topics include microcontrollers, on-board communications, telematics, hybrid systems, navigation, collision avoidance, and electronic accessories. Upon completion, students should be able to diagnose electronic systems using appropriate service information, procedures, and equipment and remove/replace/reprogram controllers, sensors, and actuators. Course Hours Per Week: Class, 2; Lab, 2; Semester Hours Credit, 3.

BIOLOGY

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by the college's placement test.

BIO 092 Basics of Cell Biology

Prerequisites: MAT 060 and RED 080, or satisfactory score on placement test

Corequisite: RED 090 or satisfactory score on placement test

This course covers basic cell biology. Emphasis is on biological chemistry, cell structure and function, cellular metabolism, genetics, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level biology courses. Laboratory exercises focus on basic biological principles and microscope techniques. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

BIO 111 General Biology I

Prerequisites: ENG 090, MAT 070, and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces the principles and concepts of biology. Emphasis is 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. Laboratory exercises reinforce lecture topics and include microscope techniques. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

BIO 112 General Biology II

Prerequisite: BIO 111

Corequisite: None

This course is a continuation of BIO 111. Emphasis is 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. Laboratory exercises include microscope observations and dissections to reinforce topics discussed in lecture. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3; Lab, 3; Semester Hours Credit, 4.

BIO 120 Introductory Botany

Prerequisite: BIO 111

Corequisite: 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. The laboratory exercises are coordinated with lecture topics and may include field exercises. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

BIO 130 Introductory Zoology

Prerequisite: BIO 111

Corequisite: None

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function, including comparative systems of selected groups. Laboratory exercises include microscope observations and dissections to reinforce topics discussed in lecture. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

BIO 140 Environmental Biology

Prerequisites: Completion of General education core

Corequisites: None

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3; Lab, 0; Semester Hours Credit, 3

BIO 163 Basic Anatomy and Physiology

Prerequisite: RED 090 or satisfactory score on placement test

Corequisite: None

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. Laboratory exercises include specific organ dissections and observations of physiology. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 4. Lab, 2. Semester Hours Credit, 5.

BIO 168 Anatomy and Physiology I

Prerequisites: ENG 090, MAT 070, and RED 090 or satisfactory score on placement test, High School biology and chemistry within the past ten (10) years), or BIO 092 and CHM 094 within the past ten (10) years, or college level BIO and CHM with no time limit.

Corequisite: None

This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization; homeostasis; cytology; histology; and the integumentary, skeletal, muscular, nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. Laboratory work includes dissection of preserved specimens, microscopic study, physiologic experiments, computer simulations, and multimedia presentations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

BIO 169 Anatomy and Physiology II

Prerequisite: BIO 168

Corequisite: None

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. Laboratory work includes dissection of preserved specimens, microscopic study, physiologic experiments, computer simulations, and multimedia presentations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

BIO 175 General Microbiology

Prerequisite: BIO 111 or BIO 163

Corequisite: None

This course covers principles of microbiology with emphasis on microorganisms and human disease. Topics include an overview of microbiology and aspects of medical microbiology, identification and control of pathogens, disease transmission, host resistance, and immunity. Upon completion, students should be able to demonstrate knowledge of microorganisms and the disease process as well as aseptic and sterile techniques. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

BIO 250 Genetics

Prerequisite: BIO 112
Corequisite: None

This course covers principles of prokaryotic and eukaryotic cell genetics. Emphasis is placed on the molecular basis of heredity, chromosome structure, patterns of Mendelian and non-Mendelian inheritance, evolution, and biotechnological applications. Upon completion, students should be able to recognize and describe genetic phenomena and demonstrate knowledge of important genetic principles. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 3; Lab, 3; Semester Hours Credit, 4.

BIO 271 Pathophysiology

Prerequisite: BIO 169
Corequisite: None

This course provides an in-depth study of human pathological processes and their effects on homeostasis. Emphasis is on interrelationships among organ systems in deviations from homeostasis. Upon completion, students should be able to demonstrate a detailed knowledge of pathophysiology. Course topics include the etiology, physical signs and symptoms, prognosis, and complications of commonly occurring diseases and their management. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BIO 275 Microbiology

Prerequisite: BIO 111 or BIO 168
Corequisite: None

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills, including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

BLUEPRINT READING

BPR 111 Blueprint Reading

Prerequisite: None
Corequisite: 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. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

BPR 121 Blueprint Reading: Mechanical

Prerequisite: BPR 111
Corequisite: None

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. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

BIOTECHNOLOGY

BTC 181 Basic Lab Techniques

Prerequisites: ENG 090, MAT 070, and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces the basic skills and knowledge necessary in a biological or chemical laboratory. Emphasis is on good manufacturing practices, safety, solution preparation, and equipment operation and maintenance following standard operating procedures. Upon completion, students should be able to prepare and perform basic laboratory procedures using labware, solutions, and equipment. Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

BUSINESS

BUS 110 Introduction to Business

Prerequisite: None

Corequisite: ENG 090 and RED 090, or satisfactory score on placement test

This course provides a survey of the business world. Topics include the basic principles and practices of contemporary business. Upon completion, students should be able to demonstrate an understanding of business concepts as a foundation for studying other business subjects. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 115 Business Law I

Prerequisite: None

Corequisite: ENG 090 and RED 090, or satisfactory score on placement test

This course introduces the ethics and legal framework of business. Emphasis is on contracts, negotiable instruments, Uniform Commercial Code, and the working of the court systems. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 116 Business Law II

Prerequisite: BUS 115

Corequisite: None

This course continues the study of ethics and business law. Emphasis is on bailments, sales, risk-bearing, forms of business ownership, and copyrights. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision making situations. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 137 Principles of Management

Prerequisite: None

Corequisite: None

This course is designed to be an overview of the major functions of management. Emphasis is on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 151 People Skills

Prerequisite: None

Corequisite: None

This course introduces the basic concepts of identity and communication in the business setting. Topics include self-concept; values; communication styles; feelings and emotions; roles versus relationships; and basic assertiveness, listening, and conflict resolution. Upon completion, students should be able to distinguish between unhealthy, self-destructive communication patterns and healthy, non-destructive, positive communication patterns. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 153 Human Resource Management

Prerequisite: None

Corequisite: None

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 210 Investment Analysis

Prerequisite: ACC 120

Corequisite: None

This course examines the concepts related to financial investment and the fundamentals of managing investments. Emphasis is on the securities markets, stocks, bonds, and mutual funds as well as tax implications of investment alternatives. Upon completion, students should be able to analyze and interpret investment alternatives and report findings to users of financial information. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 225 Business Finance

Prerequisite: ACC 120

Corequisite: None

This course provides an overview of business financial management. Emphasis is 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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

BUS 228 Business Statistics

Prerequisite: MAT 115

Corequisite: None

This course introduces the use of statistical methods and tools in evaluating research data for business applications. Emphasis is on basic probability, measures of spread and dispersion, central tendency, sampling, regression analysis, and inductive inference. Upon completion, students should be able to apply statistical problem solving to business. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

BUS 230 Small Business Management

Prerequisite: ACC 120

Corequisite: 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 234 Training and Development

Prerequisites: None

Corequisites: None

This course covers developing, conducting, and evaluating employee training with attention to adult learning principles. Emphasis is on conducting a needs assessment, using various instructional approaches, designing the learning environment, and locating learning resources. Upon completion, students should be able to design, conduct, and evaluate a training program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 235 Performance Management

Prerequisites: None

Corequisites: None

This course includes the legal background for performance management and the basic methodology used in developing and validating a performance management system. Emphasis is on job analysis, job descriptions, appraisal instruments, and action plans. Upon completion, students should be able to develop, implement, and maintain a comprehensive performance management system. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 239 Business Applications Seminar

Prerequisites: ACC 120, BUS 115, BUS 137, MKT 120, and either ECO 251 or ECO 252

Corequisite: None

This course is designed as a capstone course for Business Administration majors. Emphasis is on decision making in the areas of management, marketing, production, purchasing, and finance. Upon completion, students should be able to apply the techniques, processes, and vital professional skills needed in the work place. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

BUS 240 Business Ethics

Prerequisite: None

Corequisite: None

This course introduces contemporary and controversial ethical issues facing the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 255 Organizational Behavior in Business

Prerequisite: None

Corequisite: ENG 090 and RED 090, or satisfactory score on placement test

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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

BUS 261 Diversity in Management

Prerequisite: None

Corequisite: None

This course is designed to help managers recognize the need to incorporate diversity into all phases of organizational management. Topics include self-evaluation, management, sexual harassment, workforce diversity, dual careers, role conflict, and communication issues. Upon completion, students should be able to implement solutions minimizing policies, attitudes, and stereotypical behaviors that block effective team building. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

COMPUTER ENGINEERING TECHNOLOGY

CET 111 Computer Upgrade/Repair I

Prerequisites: CIS 110

Corequisites: 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. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CET 211 Computer Upgrade/Repair II

Prerequisites: CET 111

Corequisites: 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. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CHEMISTRY

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by the college's placement test.

CHM 094 Basic Biological Chemistry

Prerequisites: MAT 060 and RED 080, or satisfactory score on placement test

Corequisite: MAT 070 or satisfactory score on placement test

This course introduces the chemistry important to biological processes. Emphasis is on the aspects of general, organic, and biological chemistry that apply to biological systems and processes. Upon completion, students should be able to demonstrate an understanding of the basic biological chemistry necessary for success in college-level biology courses. Laboratory work reinforces the principles discussed in lecture. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

CHM 131 Introduction to Chemistry

Prerequisites: MAT 070 and RED 090, or satisfactory score on placement test

Corequisite: CHM 131 A

This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields. A brief introduction to organic chemistry, biochemistry, plastics, polymers, and combustibles is included. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural science/mathematics.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CHM 131A Introduction to Chemistry Lab

Prerequisites: MAT 070 and RED 090, or satisfactory score on placement test

Corequisite: CHM 131

This course is a laboratory to accompany CHM 131. Emphasis is on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Lab, 3;. Semester Hours Credit, 1.

CHM 132 Organic and Biochemistry

Prerequisite: CHM 131 or CHM 151

Corequisite: None

This course provides a survey of major functional classes of compounds in organic biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules as well as basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

CHM 151 General Chemistry I

Prerequisites: RED 090 and MAT 080, or satisfactory score on placement test, and CHM 094 or CHM 131 or high school chemistry within the last 5 years

Corequisite: MAT 171

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. Laboratory experiments and computer-based exercises augment and reinforce the basic principles discussed in lecture as well as provide practical examples. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

CHM 152 General Chemistry II

Prerequisite: CHM 151

Corequisite: None

This course continues the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields. Laboratory experiments and computer-based exercises augment and reinforce the basic principles discussed in lecture as well as provide practical examples. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

CHM 251 Organic Chemistry I

Prerequisite: CHM 152

Corequisite: None

This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252. Laboratory experiments, including spectroscopy and chromatography, and computer-based exercises augment and reinforce the basic principles discussed in lecture as well as provide practical examples. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

CHM 252 Organic Chemistry II

Prerequisite: CHM 251

Corequisite: None

This course continues the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines, and heterocyclics. Multi-step synthesis is 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. Laboratory experiments, including spectroscopy and chromatography, and computer-based exercises augment and reinforce the basic principles discussed in lecture as well as provide practical examples. *This course has been approved to satisfy the Comprehensive Articulation*

Agreement for transferability as a pre-major and/or elective course requirement. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

CHM 263 Analytical Chemistry
Prerequisites: CHM 132 or CHM 152
Corequisites: None

This course covers the knowledge and laboratory skills needed to perform chemical analysis. Emphasis is placed on developing laboratory techniques used in the separation, identification, and quantification of selected substances. Upon completion, students should be able to perform laboratory techniques employed in substance identification and volumetric analysis and interpret the results. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 4. Semester Hours, Credit, 5.

INFORMATION SYSTEMS

CIS 070 Fundamentals of Computing
Prerequisite: None
Corequisite: None

This course covers fundamental functions and operations of the computer. Topics include identification of components, overview of operating systems, and other basic computer operations. Upon completion, students should be able to operate computers, access files, print documents, and perform basic applications operations. Course Hours per Week: Lab, 2. Semester Hours Credit, 1.

CIS 110 Introduction to Computers
Prerequisite: None
Corequisite: None

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics.* Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

CIS 113 Computer Basics
Prerequisite: None
Corequisite: None

This course introduces basic computer usage for non-computer majors. Emphasis is placed on developing basic personal computer skills. Upon completion, students should be able to demonstrate competence in basic computer applications. Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

CIS 115 Introduction to Prog & Logic
Prerequisite: MAT 070
Corequisite: CIS 110

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design,

and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (Quantitative Option)..* Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CIS 165 Desktop Publishing I

Prerequisite: CIS 110

Corequisite: None

This course provides an introduction to desktop publishing software capabilities. Emphasis is 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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

CIS 277 Network Design and Implementation

Prerequisites: CIS 275 or NOS 220

Corequisites: None

This course focuses on the design, analysis, and integration of a network operating system. Topics include determination of a directory tree structure and object placement, creation of time synchronization strategy, security, and routing services. Upon completion, students should be able to implement a network design strategy, develop a migration strategy, and create a network implementation schedule. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

CIS 287 Network Support

Prerequisites: CIS 275

Corequisites: None

This course provides experience using CD ROM and on-line research tools and hands-on experience for advanced hardware support and troubleshooting. Emphasis is on troubleshooting network adapter cards and cabling, network storage devices, the DOS workstation, and network printing. Upon completion, students should be able to analyze, diagnose, research, and fix network hardware problems. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3. *CIS 287 will be archived as of summer 2007. CIS 287 has been revised to CTS 286 (Network Support). See CTS 286 for course information.*

CRIMINAL JUSTICE

CJC 100 Basic Law Enforcement Training

Prerequisites: Acceptance in the BLET program

Corequisites: 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, investigation, practical application and sheriff-specific. Upon successful completion, the student should be able to demonstrate competence in topics and areas required for the state comprehensive certification examination. This is a certificate-level course. Course Hours Per Week: **Class, 9.** Lab, 30.

Semester Hours Credit, 19.

CJC 111 Introduction to Criminal Justice

Prerequisites: None

Corequisites: ENG 090 and RED 090 or satisfactory score on placement test

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 as well as evaluate career options. Special emphasis is on the courts of North Carolina and on the constitutional issues arising under the Fourth, Fifth, and Sixth Amendments. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 112 Criminology

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 113 Juvenile Justice

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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 and discuss juvenile court structure and procedures, function and jurisdiction of juvenile agencies, processing and detention of juveniles, and case disposition. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 114 Investigative Photography

Prerequisites: CJC 111 and CJC 112

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course covers the operation of various photographic equipment and its application to criminal justice. Topics include using various cameras, proper exposure of film, developing film and prints, and preparing photographic evidence. Upon completion, students should be able to demonstrate and explain the role of photography and proper film exposure as well as development techniques. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

CJC 121 Law Enforcement Operations

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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. Through an application setting, students utilize current methods and practices of local agencies in order to acquire a more comprehensive understanding of operational needs and logistics. *This course has been approved to satisfy the Comprehensive Articulation*

Agreement for transferability as a pre-major and/or elective course requirement. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 122 Community Policing

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course covers the historical, philosophical, and practical dimensions of community policing. Emphasis is 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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 131 Criminal Law

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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 and elements. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 132 Court Procedure and Evidence

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course covers judicial structure, process, and 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 and search, proper judicial procedures, and the admissibility of evidence. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 141 Corrections

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 211 Counseling

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course introduces the basic elements of counseling and specific techniques applicable to the criminal justice setting. Topics include observation, listening, recording, interviewing, and problem exploration

necessary to form effective helping relationships. Upon completion, students should be able to discuss and demonstrate the basic techniques of counseling. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 212 Ethics and Community Relations

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 213 Substance Abuse

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course is a study of substance abuse in our society. Topics include the history and classifications of drug abuse and the social, physical, and psychological impact of drug abuse. Upon completion, students should be able to identify various types of drugs, their effects on human behavior and society, and treatment modalities. Current area drug trends and North Carolina statutes regarding controlled substances are reviewed. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 214 Victimology

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course introduces the study of victims. Emphasis is on roles and 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. In addition, this course assesses mastery of critical competencies within the Criminal Justice program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 215 Organization and Administration

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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 and 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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 221 Investigative Principles

Prerequisites: CJC 111 and CJC 222

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course introduces the theories and fundamentals of the investigative process. Topics include crime scene and incident processing, information gathering techniques, collection and 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. Identified critical competencies will be covered and evaluated. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

CJC 222 Criminalistics

Prerequisites: CJC 111 and CJC 112

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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. Practical applications of course materials are utilized at the instructor's discretion. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 225 Crisis Intervention

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course introduces critical incident intervention and management techniques as they apply to operational criminal justice practitioners. Emphasis is on the victim/offender situation as well as on job-related high stress and 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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 231 Constitutional Law

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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 and discuss the basic structure of the United States Constitution as well as the rights and procedures as interpreted by the courts. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 232 Civil Liability

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CJC 241 Community-Based Corrections

Prerequisites: None

Corequisites: ENG 090 and RED 090, or satisfactory score on placement test

This course covers programs for convicted offenders that are used both as alternatives to incarceration and in post-incarceration situations. Topics include offenders, diversion, house arrest, restitution, community service,

probation and parole, including both public and private participation, and other related topics. Upon completion, students should be able to identify and discuss the various programs from the perspective of the criminal justice professional, the offender, and the community. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

COOPERATIVE EDUCATION

COE 110 World of Work

Prerequisites: Permission of program director

Corequisites: None

This course covers basic knowledge necessary for gaining and maintaining employment. Topics include job search skills, work ethic, meeting employer expectations, workplace safety, and human relations. Upon completion, students should be able to make a successful transition from school to work. Course Hours Per Week: Class, 1. Semester Hours Credit, 1.

COE 111 Co-Op Work Experience I

Prerequisites: Permission of program director

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 on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. Course Hours Per Week: Work Experience, 10. Semester Hours Credit, 1.

COE 112 Co-Op Work Experience I

Prerequisites: Permission of program director

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 on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. Course Hours Per Week: Work Experience, 20. Semester Hours Credit, 2.

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 on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies. Course Hours Per Week: Work Experience, 10. Semester Hours Credit, 1.

COMMUNICATION

COM 120 Intro to Interpersonal Communication

Prerequisites: ENG 080 and RED 080

Corequisite: None

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is on the communication process; issues addressed include perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts (substitute).* Course Hours Per Week: Class, 3; Semester Hours Credit, 3.

COM 231 Public Speaking

Prerequisites: ENG 080 and RED 080

Corequisites: None

This course provides instruction and experience in preparing and delivering speeches within a public setting and group discussion. Emphasis is 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. Students should also demonstrate the speaking, listening, and interpersonal skills necessary to be effective communicators in academic settings, in the workplace, and in the community. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in speech/communication.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

COMPUTER SCIENCE**CSC 120 Computing Fundamentals I**

Prerequisite: MAT 080 or MAT 090 or satisfactory score on placement test and CIS 110

Corequisites: None

This course provides the essential foundation for the discipline of computing and a program of study in computer science, including the role of the professional. Topics include algorithm design, data abstraction, searching and sorting algorithms, and procedural programming techniques. Upon completion, students should be able to solve problems, develop algorithms, specify data types, perform sorts and searches, and use an operating system. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

CSC 130 Computing Fundamentals II

Prerequisites: CSC 120

Corequisites: None

This course provides in-depth coverage of the discipline of computing and the role of the professional. Topics include software design methodologies, analysis of algorithm and data structures, searching and sorting algorithms, and file organization methods. Upon completion, students should be able to use software design methodologies and choice of data structures as well as understand the social and ethical responsibilities of the computing professional. *This course has been approved to satisfy the Comprehensive Articulation Agreement*

for transferability as a pre-major and/or elective course requirement. Course Hours Per Week: Class, 3. Lab 2, Semester Hours Credit, 4.

CSC 134 C++ Programming

Prerequisites: CIS 115

Corequisites: None

This course introduces computer programming using the C++ programming language with object-oriented programming principles. Emphasis is on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* . Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CSC 139 Visual BASIC Prog

Prerequisites: CIS 115

Corequisites: None

This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CSC 151 JAVA Programming

Prerequisites: CIS 115

Corequisites: None

This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CSC 152 SAS

Prerequisite: None

Corequisite: DBA 110

This course introduces the fundamentals of SAS programming. Emphasis is on learning basic SAS commands and statements for solving a variety of data processing applications. Upon completion, students should be able to use SAS data and procedure steps to create SAS data sets, do statistical analysis, and create general customized reports. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CSC 153 C# Programming

Prerequisites: CIS 115

Corequisites: None

This course introduces computer programming using the C# programming language with object-oriented programming principles. Emphasis is on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion,

students should be able to design, code, test, debug, and implement objects using the appropriate environment at the beginning level. Course Hours Per Week: 2. Lab, 3.

Semester Hours Credit, 3

CSC 239 Adv Visual Basic Prog

Prerequisite: CSC 139

Corequisite: DBA 110

This course is a continuation of CSC 139 using the Visual BASIC programming language with object-oriented programming principles. Emphasis is on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test, debug, and implement objects using the appropriate environment. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CSC 251 Adv JAVA Programming

Prerequisites: CSC 151

Corequisites: DBA 120

This course is a continuation of CSC 151 using the JAVA programming language with object-oriented programming principles. Emphasis is 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. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CSC 253 Adv C# Programming

Prerequisites: CSC 153

Corequisites: DBA 110

This course is a continuation of CSC 153 using the C# programming language with object-oriented programming principles. Emphasis is 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. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CSC 289 Programming Capstone Proj

Prerequisites: CTS 285 and two from CSC 239, CSC 251, CSC 253

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 on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete a project from the definition phase through implementation. Course Hours Per Week. Class, 1. Lab, 4. Semester Hours Credit, 3.

CLINICAL TRIALS RESEARCH ASSOCIATE

CTR 110 Introduction to Clinical Research

Prerequisite: Enrollment in the Clinical Trials Research Associate program or permission of program director
Corequisite: None

This course provides a comprehensive introduction to the clinical research process and its history and evolution. Topics include phase of clinical trials, protection of human subjects, roles of the clinical research teams, and responsibilities of clinical research organizations. Upon completion, students should be able to prepare an organizational chart depicting a typical research team, defining the roles or responsibilities of each member. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CTR 112 Clinical Research Terminology

Prerequisite: CTR 110
Corequisite: None

This course is designed to enhance and augment the student's knowledge of basic medical terminology. Emphasis is on acronyms, abbreviations, and initials commonly used in clinical research and the terminology associated with pharmaceutical and pharmacological research. Upon completion, students will be able to utilize and apply standard research terminology in effective written and verbal communication. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CTR 115 Clinical Research Regulations

Prerequisites: CTR 110
Corequisites: None

This course covers the range of national and international regulations governing the development of drugs, diagnostics, medical devices, and biologics. Topics include a review of the regulatory agencies, guidelines for regulatory application, required documentation, and preparation for compliance audits. Upon completion, students should be able to demonstrate a basic understanding of regulatory processes associated with clinical research and describe effective means of compliance. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CTR 120 Research Protocol Design

Prerequisites: CTR 130
Corequisites: None

This course introduces the student to the scientific development of research protocols and their key elements. Topics include the differentiation between research design types, rules for writing protocols, ethical considerations relative to research protocols, and the correct preparation of data collection forms. Upon completion, students should be able to identify the primary components of protocols and effectively develop a protocol draft. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CTR 130 Clinical Research Management

Prerequisites: None
Corequisites: None

This course introduces the student to the elements involved in implementing and managing a clinical study. Topics include overall project planning, development of study goals, preparation of budget and contracts, implementation of monitoring visits, and effective management of research sites. Upon completion, students should be able to design and prepare a plan for the implementation and management of a sample clinical research project. Course Hours Per Week: Class, 4. Semester Hours Credit, 4.

CTR 150 Research Fieldwork I

Prerequisites: CTR 130, CTR 220, and BIO 169

Corequisites: None

This course provides supervised work experience and observation in a clinical research setting. Emphasis is on the enhancement of professional skills and the practical application of curriculum concepts research setting. Upon completion, students should be able to apply research theory effectively to clinical research practices. Course Hours Per Week: Lab, 15. Semester Hours Credit, 5.

CTR 210 Research Data and Reports

Prerequisites: CTR 120

Corequisites: None

This course covers the organization and management of study data and the effective presentation of data in reports. Topics include database structures, data management systems, quality assurance, data confidentiality and security, key elements of effective reports, and preparation of case report forms. Upon completion, students should be able to organize, enter, and review effectively the data used in presentations required reports. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CTR 215 Data Management Concepts

Prerequisite: CTR 210

Corequisite: None

This course is designed to discuss the elements involved in implementing and managing a clinical study from the perspective of the Data Manager. Topics include development of the data management plan, coordination of data collection and capture, plan the closure and archival of study materials and participate in project management activities. Upon completion, students should be able to design, prepare and execute a complete data management plan for the implementation and management of a sample clinical research project. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

CTR 220 Research Site Management

Prerequisites: CTR 115

Corequisites: None

This course covers the guidelines and methodology of research site management and the recruitment of research sites, investigators, and subjects. Topics include the identification and evaluation of sites and investigators, on-site budget management, and the coordination of subject participation. Upon completion, students should be able to demonstrate the principles and practices of effective research site management. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

CTR 225 Data Collection

Prerequisites: CTR 210, CTR 215

Corequisite: None

This course is designed to instruct the student on the data collection, validation and quality assurance processes of a clinical research study as conducted by the data management staff. Topics include the development and implementation of data review and data collection, the development of the validation program and the function, conduct and followup of a quality assurance audit of data. Upon completion, students should be able to develop and implement a plan for data collection, validation and quality assurance for a clinical research study. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

CTR 230 Data Trends and Reporting
Prerequisites: CTR 210, CTR 215, CTR 225
Corequisites: None

This course covers the reporting of clinical trial data including identification of safety and efficacy trends in the data. Topics include generation of tables, listing and graphs, the identification and reporting of data trends, and the generation of various types of study reports. Upon completion, students should be able to demonstrate an understanding of the process for review and reporting of clinical trial data results. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

CTR 250 Research Fieldwork II
Prerequisites: CTR 150
Corequisites: None

This course provides more advanced work experience in a clinical research setting. Emphasis is on the refinement of professional skills and the practice of curriculum concepts in diverse clinical research areas. Upon completion, students should be able to apply research theory to clinical practices. Course Hours Per Week: Lab, 24. Semester Hours Credit, 8.

CTR 281 Trends in Clinical Research
Prerequisites: CTR 130
Corequisites: None

This course covers the major issues, trends, and concepts in contemporary clinical research practice. Topics include professional ethics, continuing education and certification, job placement skills, and the latest developments in clinical research. Upon completion, students should be able to demonstrate a basic knowledge of the topics covered. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

Computer Information Technology

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. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

CTS 130 Spreadsheet

Prerequisites: CIS 110

Corequisites: None

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

CTS 135 Integrated Software Intro

Prerequisites: CTS 130, DBA 110, and OST 136

Corequisites: None

This course instructs students in the Windows or Linux based program suites for word processing, spreadsheet, database, personal information manager, and presentation software. This course prepares students for introductory level skills in database, spreadsheet, personal information manager, word processing, and presentation applications to utilize data sharing. Upon completion, students should be able to design and integrate data at an introductory level to produce documents using multiple technologies. Course Hours Per Week: Class, 2. Lab, 4. Semester Hours Credit, 4.

CTS 220 Adv Hard/Software Support

Prerequisites: CTS 120

Corequisites: None

This course provides advanced knowledge and competencies in hardware and operating system technologies for computer technicians to support personal computers. Emphasis is on configuring and upgrading; diagnosis and troubleshooting; as well as preventive maintenance of hardware and system software. Upon completion, students should be able to install, configure, diagnose, perform preventive maintenance, and maintain basic networking on personal computers. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

CTS 230 Advanced Spreadsheet

Prerequisites: CTS 130

Corequisites: None

This course covers advanced spreadsheet design and development. Topics include advanced functions and statistics, charting, macros, databases, and linking. Upon completion, students should be able to demonstrate competence in designing complex spreadsheets. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

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 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. Course Hours Per Week: Class, 3. Lab, 0. Semester Hours Credit, 3.

CTS 286 Network Support
Prerequisites: NOS 230 or NOS 231
Corequisites: None

This course provides experience using CD ROM and on-line research tools and hands-on experience for advanced hardware support and troubleshooting. Emphasis is on troubleshooting network adapter cards and cabling, network storage devices, the DOS workstation, and network printing. Upon completion, students should be able to analyze, diagnose, research, and fix network hardware problems. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

CTS 289 System Support Project
Prerequisites: CTS 285 and (CTS 230, DBA 115, OST 236 for Computer Information Technology Software Specialist Track only)
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. Course Hours Per Week: Class, 1. Lab, 4. Semester Hours Credit, 3.

Database Management Technology

DBA 110 Database Concepts
Prerequisites: CIS 110
Corequisites: None

This course introduces database design and creation using a DBMS product. Emphasis is 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. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

DBA 115 Database Applications
Prerequisites: DBA 110
Corequisites: None

This course applies concepts learned in DBA 110 to a specific DBMS. Topics include manipulating multiple tables, advanced queries, screens and reports, linking, and command files. Upon completion, students should be able to create multiple table systems that demonstrate updates, screens, and reports representative of industry requirements. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

DBA 120 Database Programming I
Prerequisites: CIS 110 OR CIS 115
Corequisites: None

This course is designed to develop SQL programming proficiency. Emphasis is on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be

able to write programs which create, update, and produce reports. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

DBA 220 Oracle DB Programming II

Prerequisites: DBA 120

Corequisites: None

This course is designed to enhance programming skills developed in DBA 120. Topics include application development with GUI front-ends and embedded programming. Upon completion, students should be able to develop an Oracle DBMS application which includes a GUI front-end and report generation. Class, 2. Lab, 2. Semester Hours Credit, 3.

DRAFTING

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. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

DFT 117 Technical Drafting

Prerequisites: None

Corequisites: None

This course introduces basic drafting practices for non-drafting majors. Emphasis is on instrument use and care, shape and size description, sketching, and pictorials. Upon completion, students should be able to produce drawings of assigned parts. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

New Course

DFT 119 Basic CAD

Prerequisites: None

Corequisites: None

This course introduces computer-aided drafting software for specific technologies to non-drafting majors. Emphasis is placed on understanding the software command structure and drafting standards for specific technical fields. Upon completion, students should be able to create and plot basic drawings. Course Hours per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

DFT 170 Engineering Graphics

Prerequisites: None

Corequisites: None

This course introduces basic engineering graphics skills, equipment, and applications (manual and computer-aided). Topics include sketching, measurements, lettering, dimensioning, geometric construction, orthographic projections and pictorial drawings, and sectional and auxiliary views. Upon completion, students should be able

to demonstrate an understanding of basic engineering graphics principles and practices. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

DENTAL LABORATORY TECHNOLOGY

DLT 111 Dental Anatomy/Physiology

Prerequisites: Enrollment in the Dental Laboratory Technology program

Corequisites: None

This course introduces the anatomy of the individual tooth and the basic anatomy/physiology of the head, oral cavity, and supporting structures. Topics include anatomy, contour, occlusion, malocclusion, the temporomandibular joint, and the anatomical structures of the head and oral cavity. Upon completion, students should be able to carve teeth with proper occlusion, anatomy, and contour and understand the anatomy of the head and oral cavity. Course Hours Per Week: Class, 3. Lab, 6. Semester Hours Credit, 5.

DLT 114 Dental Materials

Prerequisites: Enrollment in the Dental Laboratory Technology program

Corequisites: None

This course provides a study of the composition, properties, and uses of non-metal materials as well as the physical and mechanical properties of metal alloys. Topics include gypsums, waxes, acrylics, metals, and policies related to health, safety, and infection control. Upon completion, students should be able to identify gypsums, waxes, acrylics, and metal materials and know the proper procedures for health, safety, and infection control. Course Hours Per Week: Class, 1. Lab, 6. Semester Hours Credit, 3.

DLT 116 Complete Dentures

Prerequisites: Enrollment in the Dental Laboratory Technology program

Corequisites: None

This course introduces basic and intermediate techniques in complete denture construction and also covers mandibular movement, occlusion, and infection control. Topics include baseplates, occlusion rims, articulator mountings, custom trays, setting of teeth, waxing denture bases, investing, processing, selective grinding, finishing, and polishing of complete dentures. Upon completion, students should be able to construct complete denture prostheses utilizing proper laboratory technique. Course Hours Per Week: Class, 1. Lab, 9. Semester Hours Credit, 4.

DLT 118 Cast Partial Dentures

Prerequisites: None

Corequisites: DLT 114

This course covers techniques used in fabricating cast removable partial denture frameworks utilizing a chrome-cobalt alloy. Topics include surveying, designing, block-out procedures, pouring refractory casts, waxing, casting, finishing, polishing frameworks, tooth selection, setup, processing, and finishing of acrylic. Upon completion, students should be able to fabricate cast removable partial dentures following the dental prescription. Course Hours Per Week: Class, 3. Lab, 9. Semester Hours Credit, 6.

DLT 119 Wrought-Orthodontic Appliances

Prerequisites: DLT 114

Corequisites: None

This course introduces techniques for fabricating removable wrought and orthodontic/pedodontic appliances. Topics include wrought clasps, archwires, orthodontic clasps, orthodontic acrylic, soldering, fabrication, and repair of orthodontic restorations. Upon completion, students should be able to fabricate removable wrought-orthodontic appliances following the dental prescription. Course Hours Per Week: Class, 1. Lab, 9. Semester Hours Credit, 4.

DLT 123 Crown and Bridge

Prerequisites: DLT 111 and DLT 114

Corequisites: None

This course introduces techniques for fabricating cast gold restorations. Topics include infection control, pouring impressions with removable dies, trimming margins, articulating, waxing of single and multiple units, soldering, and principles of occlusion. Upon completion, students should be able to fabricate single and multiple unit cast gold fixed restorations. Course Hours Per Week: Class, 2. Lab, 12. Semester Hours Credit, 6.

DLT 126 Advanced Crown and Bridge

Prerequisites: DLT 123

Corequisites: None

This course introduces techniques for fabricating advanced fixed restorations. Topics include resin veneers, temporary crowns, post-core crowns, overdenture copings, non-parallel bridges, and semi-precision attachments. Upon completion, students should be able to fabricate advanced fixed restorations. Course Hours Per Week: Class, 1. Lab, 9. Semester Hours Credit, 4.

DLT 211 Advanced Complete Dentures

Prerequisites: DLT 114 and DLT 116

Corequisites: None

This course includes instruction in advanced complete denture construction. Topics include overdentures, immediate dentures, cast metal bases, relines, rebases, repairs, and various occlusal relationships. Upon completion, students should be able to construct advanced complete denture prostheses following the dental prescription. Course Hours Per Week: Class, 2. Lab, 12. Semester Hours Credit, 6.

DLT 215 Advanced Partial Dentures

Prerequisites: DLT 118

Corequisites: None

This course examines the biomechanics of removable partial denture design as well as fabrication and concepts, including gnathological principles as applied in the construction of restorations. Emphasis is on fabricating advanced cast metal restorations, including bite raisers, flat back facings, tube teeth, and concepts relating to precision partial construction, such as implants. Upon completion, students should be able to demonstrate an understanding of gnathological concepts and the fabrication of special types of removable restorations. Course Hours Per Week: Class, 1. Lab, 6. Semester Hours Credit, 3.

DLT 217 Ceramic Techniques

Prerequisites: DLT 126

Corequisites: None

This course includes the physical properties of metals and ceramics as well as the fabrication of porcelain fused to metal crowns, including porcelain shoulder margins. Emphasis is on infection control, model and die

fabrication, metal substructure fabrication, build up, firing, and finishing of ceramic crowns. Upon completion, students should be able to complete single unit ceramic crowns. Course Hours Per Week: Class, 2. Lab, 9. Semester Hours Credit, 5.

DLT 219 Jurisprudence and Ethics

Prerequisites: Enrollment in the Dental Laboratory Technology program

Corequisites: None

This course covers the history as well as the legal and ethical aspects of the laboratory profession and in-depth studies of the certification program. Topics include dental laboratory history, dentist-laboratory relationships, certification preparation, and legal and ethical requirements of dental laboratories and technicians. Upon completion, students should be able to demonstrate an understanding of the legal and ethical requirements of the dental laboratory profession and dental history. Course Hours Per Week: Class, 1. Semester Hours Credit, 1.

DLT 222 Advanced Ceramic Techniques

Prerequisites: DLT 217

Corequisites: None

This course covers the fabrication of metal-ceramic bridges; all-ceramic crowns; and shading, staining, and personalizing ceramic restorations. Emphasis is on bonding dental porcelain on base metal alloys, margination, contouring, shading, and soldering. Upon completion, students should be able to fabricate ceramic-to-metal bridgework. Course Hours Per Week: Class, 2. Lab, 9. Semester Hours Credit, 5.

DLT 224 Dental Lab Practice

Prerequisites: DLT 211, DLT 126, DLT 217, AND DLT 118 **and all required General Education courses for the degree**

Corequisites: DLT 215 and DLT 222

This course provides practical experience in the commercial laboratory setting. Emphasis is on all laboratory techniques pertaining to the specialty area. Upon completion, students should be able to function effectively in the commercial dental laboratory environment. Course Hours Per Week: Work Experience, 20. Semester Hours Credit, 2.

DRAMA

DRA 122 Oral Interpretation

Prerequisites: ENG 080, RED 080 or satisfactory score on placement test

Corequisites: None

This course introduces the dramatic study of literature through performance. Emphasis is on analysis and performance of poetry, drama, and prose fiction. Upon completion, students should be able to appreciate and to participate in the critical analysis of various literary voices. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3; Semester Hours Credit, 3.

DRA 170 Play Production I

Prerequisites: None

Corequisites: None

This course provides an applied laboratory study of the processes involved in the production of a play. Topics include fundamental practices, principles, and techniques associated with producing plays of various periods and styles. Upon completion, students should be able to participate in an assigned position with a college theatre production. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 0. Lab, 9. Semester Hours Credit, 3.

ECONOMICS

ECO 251 Principles of Microeconomics

Prerequisites: ENG 090, MAT 070, and RED 090, or satisfactory score on placement test

Corequisites: None

This course introduces economic analysis of individual, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to achieve economic objectives efficiently. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ECO 252 Principles of Macroeconomics

Prerequisites: ENG 090, MAT 070, and RED 090, or satisfactory score on placement test

Corequisites: None

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDUCATION

DELETE:

EDU 111 Early Childhood Credential I

Prerequisites: High school diploma or GED

Corequisites: None

DELETE

EDU 112 Early Childhood Credential II

Prerequisites: High school diploma or GED and EDU 111

Corequisites: None

EDU 113 Family/Early Childhood Credential

Prerequisites: High school diploma or GED and EDU 111

Corequisites: None

This course covers business and professional practices for family early childhood providers, developmentally appropriate practices, positive guidance, and methods of providing a safe and healthy environment. Topics include developmentally appropriate practices; health, safety, and nutrition; and business and professionalism. Upon completion, students should be able to develop a handbook of policies, procedures, and practices for a family child care home. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

EDU 118 Teacher Associate Principles and Practice

Prerequisites: None

Corequisites: None

This course covers the teacher associate's role in the educational system. Topics include history of education, professional responsibilities and ethics, cultural diversity, communication skills, and identification of the optimal learning environment. Upon completion, students should be able to describe the supporting professional role of the teacher associate, demonstrate positive communication, and discuss educational philosophy. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 119 Intro to Early Child Education

Prerequisite: High school diploma or GED

Corequisite: None

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for children. Topics include historical foundations, program types, career options, professionalism, and creating inclusive environments and curriculum that are responsive to the needs of children and families. Upon completion, students should be able design career plans and develop appropriate schedules, environments and activity plans while incorporating adaptations for children with exceptionalities. Course Hours Per Week: Class, 4. Semester Hours Credit, 4.

EDU 131 Child, Family, and Community

Prerequisites: High school diploma or GED

Corequisites: None

This course covers the relationships between the families, programs for children and schools, and the community. Emphasis is on establishing and maintaining positive collaborative relationships with families and community resources. Upon completion, students should be able to demonstrate strategies for effectively working with diverse families and for identifying and utilizing community resources. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 144 Child Development I

Prerequisites: High school diploma or GED, ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: None

This course covers the theories of child development and the developmental sequences of children from conception through the pre-school years for early childhood educators. Emphasis is on sequences in physical/motor, social, emotional, cognitive, and language development as well as appropriate experiences for the young child. Upon completion, students should be able to identify developmental milestones, plan experiences to enhance development, and describe appropriate interaction techniques and environments for typical and atypical development. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 145 Child Development II

Prerequisites: High school diploma or GED and EDU 144 and ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: None

This course covers theories of child development and developmental sequences of children from pre-school through middle childhood for early childhood educators. Emphasis is on characteristics of physical/motor, social, emotional, and cognitive/language development and appropriate experiences for children. Upon completion, students should be able to identify developmental characteristics, plan experiences to enhance development, and describe appropriate interaction techniques and environments. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 146 Child Guidance

Prerequisites: High school diploma or GED and ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: None

This course introduces practical principles and techniques for developmentally appropriate guidance. Emphasis is on encouraging self-esteem and cultural awareness, effective communication skills, and direct and indirect guidance techniques and strategies. Upon completion, students should be able to demonstrate strategies which encourage positive social interactions; promote conflict resolution; and develop self-control, self-motivation, and self-esteem in children. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 151 Creative Activities

Prerequisites: High school diploma or GED

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 physical skills, and dramatics. Upon completion, students should be able to create, manage, adapt and evaluate developmentally supportive learning materials, experiences and environments. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 151A Creative Activities Lab

Prerequisites: None

Corequisites: EDU 151

This course provides a laboratory component to complement EDU 151. Emphasis is placed on practical experiences that enhance concepts introduced in the classroom. Upon completion, students should be able to demonstrate a practical understanding of the development and implementation of appropriate creative activities. Course Hours Per Week: Class, 0. Lab, 2. Semester Hours Credit, 1.

EDU 152 Music, Movement, and Language

Prerequisite: High school diploma or GED

Corequisite: None

This course introduces historical perspectives of music and movement and integrates the whole language concept with emphasis on diversity. Emphasis is on designing an environment that focuses on language development through developmentally and culturally appropriate music and movement. Upon completion,

students should be able to design an environment that develops language through a music and movement curriculum that emphasizes diversity. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 153 Health, Safety, and Nutrition

Prerequisites: High school diploma or GED

Corequisite: None

This course focuses on promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations. Upon completion, students should be able to demonstrate knowledge of health, safety, and nutritional needs, implement safe learning environments, and adhere to state regulations. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 154 Social/Emotion/Behavioral Development

Prerequisites: High School diploma or GED

Corequisites: None

This course covers the social-emotional and behavioral development of children and the causes, expressions, and prevention and management of challenging behaviors in all children. Emphasis is on caregiver-child relationships, positive social-emotional environments, developmental concerns, risk factors, early identification and screening and intervention strategies. Upon completion, students should be able to identify factors influencing social-emotional development and behaviors, utilize screening measures, design behavioral plans and make appropriate referrals. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 161 Introduction to Exceptional Child

Prerequisites: High school diploma or GED and ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: None

This course covers exceptional children as learners within the context of the community, school, and family. Emphasis is on the legal, social, physical, political, and cultural issues relating to the analysis and teaching of exceptional children. Upon completion, students should be able to demonstrate knowledge of identification processes, mainstreaming techniques, and professional practices and attitudes. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

EDU 162 Early Exposure/Prospective Teachers

Prerequisites: EDU 112 or EDU 119; EDU 131, EDU 145, EDU 146, EDU 151, EDU 151A, EDU 153, EDU 161, EDU 221, EDU 234, EDU 261, EDU 262, EDU 271, EDU 280

Corequisite: COE 111

This course provides an opportunity to observe teachers and pupils in a natural classroom environment. Emphasis is on observation methods, planning, teaching, evaluation, personal goal assessment, and curriculum. Upon completion, students should be able to demonstrate an understanding of their own personal teaching goals, teaching methods, planning methods, and student performance evaluation. This course serves as a capstone course for the Early Childhood Associate in Applied Science program. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

EDU 163 Classroom Mgt & Instruct

Prerequisites: None

Corequisites: None

This course examines 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 developmentally appropriate behavior management and instructional strategies that enhance the teaching/learning process and promote students' academic success. Course Hours Per Week: Class, 3. Lab, 0 Semester Hours Credit, 3

EDU 171 Instructional Media

Prerequisites: None

Corequisites: None

This course covers the development and maintenance of effective teaching materials and the operation of selected pieces of equipment. Topics include available community resources, various types of instructional materials and bulletin boards, and audiovisual and computer use with children. Upon completion, students should be able to construct and identify resources for instructional materials and bulletin boards and use audiovisual and computer equipment. Course Hours Per Week: Class, 1. Laboratory, 2. Semester Hours Credit, 2.

EDU 172 Education Tools

Prerequisites: None

Corequisites: None

This course covers practical applications of technology in educational settings. Topics include software selection for classroom usage, record keeping, and adaptive technology for children with special needs. Upon completion, students should be able to demonstrate appropriate computer skills for the educational environment. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

EDU 186 Reading and Writing Methods

Prerequisites: None

Corequisites: None

This course covers concepts, resources, and methods for teaching reading and writing to school-age children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches, and instructional strategies. Upon completion, students should be able to assess, plan, implement, and evaluate developmentally appropriate reading and writing experiences. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 216 Foundations of Education

Prerequisite: None

Corequisite: None

This course introduces the American educational system and the teaching profession. Topics include historical and philosophical foundations of education, contemporary educational, structural, legal, and financial issues, PRAXIS I preparation 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 to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

EDU 221 Children with Exceptionalities

Prerequisites: EDU 144 and EDU 145

Corequisites: None

This course, based on the foundation of typical development, introduces working with children with exceptionalities. Emphasis is placed on the characteristics and assessment of children and strategies for adapting the learning environment. Upon completion, students should be able to recognize atypical development, make appropriate referrals, collaborate with families and professionals to plan, implement, and evaluate inclusion strategies. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 234 Infants, Toddlers, and Twos

Prerequisites: High school diploma or GED

Corequisite: None

This course covers the skills needed to implement effectively the group care of infants, toddlers, and two-year-olds. Emphasis is on child development and developmentally appropriate practices. Upon completion, students should be able to identify, plan, select materials and equipment, and implement and evaluate a developmentally appropriate curriculum. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 235 School-Age Development and Programs

Prerequisites: None

Corequisites: None

This course presents developmentally appropriate practices in group care for school-age children. Topics include principles of development, environmental planning, and positive guidance techniques. Upon completion, students should be able to discuss developmental principles for children five to twelve years of age and plan and implement age-appropriate activities. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

EDU 241 Adult-Child Relations

Prerequisites: High school diploma or GED

Corequisites: None

This course covers self-concept and effective, active listening skills in positive one-to-one interactions with individuals and groups of children. Emphasis is on self-concept development and effective communication techniques used with children. Upon completion, students should be able to identify principles underlying self-concept and demonstrate effective listening and communication skills adults use with children. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

EDU 243 Learning Theory

Prerequisites: None

Corequisites: None

This course provides lateral entry teachers an introduction to learning theory, various styles of learning, and motivational factors involved in the learning process. Emphasis is on the development of cognitive skills using the seven types of intelligence and applying these to practical classroom situations. Upon completion, students should be able to describe theories and styles of learning and discuss the relationship between different types of intelligence to learning motivation. Course Hours Per Week: Class, 3 Semester Hours Credit, 3

EDU 245 Policies and Procedures

Prerequisites: None

Corequisites: None

This course is designed to introduce new lateral entry teachers to the policies and procedures established by the local education agency. Topics include emergency situation procedures, acceptable discipline, chain of command, role of mentors, evaluation procedures, employment requirements, dress codes, and other policies and procedures. Upon completion, students should be able to explain the policies and procedures to students, parents, or others and discuss the purpose of each policy category. Course Hours Per Week: Class, 3 Semester Hours Credit, 3

EDU 250 PRAXIS I Preparation

Prerequisite: Final semester of Early Childhood Associate or Teacher Associate program

Corequisite: None

This course is designed to prepare potential teachers for the PRAXIS I exam that is necessary to enter the field of education. Emphasis is on content specifications of the PRAXIS I exam, study skills, and simulated examinations. Upon completion, students should be able demonstrate an understanding of the content necessary for successful completion of the PRAXIS I exam. Course Hours Per Week: Class, 1. Semester Hours Credit, 1.

EDU 257 Math Methods and Materials

Prerequisites: None

Corequisites: None

This course covers concepts, activities, methods, and materials for teaching mathematics in elementary through middle school grades. Topics include individual instruction, developmental skill building, manipulatives, problem solving, critical thinking, and numerical concepts. Upon completion, students should be able to assess, plan, implement, and evaluate developmentally appropriate math experiences. Course Hours Per Week: Class, 2. Laboratory, 2. Semester Hours Credit, 3.

EDU 259 Curriculum Planning

Prerequisites: EDU 112 or EDU 113 or EDU 119

Corequisites: None

This course covers early childhood curriculum planning. Topics include philosophy, curriculum, indoor and outdoor environmental design, scheduling, observation and assessment, and instructional planning and evaluation. Upon completion, students should be able to assess children and the curriculum; plan for daily, weekly, and long-range instruction; and design environments with appropriate equipment and supplies. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 261 Early Childhood Administration I

Prerequisites: High school diploma or GED and ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: None

This course covers the policies, procedures, and responsibilities for managing early childhood education programs. Topics include implementation of goals, principles of supervision, budgeting and financial management, and meeting the standards for a N.C. Child Day Care license. Upon completion, students should be able to develop program goals, explain licensing standards, determine budgeting needs, and describe effective methods of personnel supervision. Students should also be able to develop a plan for center site location and start-up. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 262 Early Childhood Administration II

Prerequisites: High school diploma or GED and EDU 261

Corequisites: None

This course provides a foundation for budgetary, financial, and personnel management of the child care center. Topics include budgeting, financial management, marketing, hiring, supervision, and professional development of a child care center. Upon completion, students should be able to formulate marketing, financial management, and fund development plans as well as develop personnel policies, including supervision and staff development plans. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 263 Developing School-Age Programs

Prerequisites: None

Corequisites: None

This course introduces the methods and procedures for operating a school-age program in either the public or proprietary setting. Emphasis is on constructing and organizing the physical environment as well as planning and developing a school-age program. Upon completion, students should be able to plan and develop a quality school-age program. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

EDU 271 Educational Technology

Prerequisite: CIS 113 or CIS 110

Corequisite: None

This course introduces the use of technology to enhance teaching and learning in all educational settings. Topics include technology concepts, instructional strategies, materials and adaptive technology for children with exceptionalities, facilitation of assessment/evaluation, and ethical issues surrounding the use of technology. Upon completion, students should be able to apply technology enhanced instructional strategies, use a variety of technology resources and demonstrate appropriate technology skills in educational environments. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

EDU 275 Effective Teacher Training

Prerequisites: None

Corequisites: None

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. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

EDU 280 Language & Literacy Experience

Prerequisites: High school diploma or GED, and ENG 080 and RED 080 or satisfactory score on placement test
Corequisites None

This course explores the continuum of children's communication development, including verbal and written language acquisition and other forms of communication . Topics include selection of literature and other media, the integration of literacy concepts throughout the classroom environment, inclusive practices and appropriate assessments. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate literacy experiences. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EDU 285 Internship Experiences-School Age

Prerequisites: ENG 111 and completion of curriculum core requirements
Corequisites: COE 121

This course provides an opportunity to discuss internship experiences with peers and faculty. Emphasis is on evaluating and integrating practicum experiences. Upon completion, students should be able to demonstrate competence in early childhood education. *This course is a unique concentration requirement in the Teacher Associate concentration of the Early Childhood Associate program.* Course Hours Per Week: Class, 1. Semester Hours Credit, 1.

EDU 288 Advanced Issues/Early Childhood Education

Prerequisites: High school diploma or GED
Corequisites: None

This course covers advanced topics and issues in early childhood. Emphasis is on current advocacy issues, emerging technology, professional growth experiences, and other related topics. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues in early childhood education. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

ENGLISH AS A FOREIGN LANGUAGE

EFL 181 EFL Lab 1

Prerequisites: ENG 070 and RED 070, or permission of EFL Coordinator
Corequisites: None

This course is designed to enhance the preparation of advanced non-native speakers of English for successful communication as required in college-level courses. Emphasis is placed on the writing and editing of compositions for grammatical accuracy and clarity through the use of supplementary learning media and materials. Upon completion, students should be able to converse and write in various organizational formats. Course Hours Per Week: Class, 0. Lab, 2. Semester Hours Credit, 1.

EFL 182 EFL Lab 2

Prerequisites: ENG 070 and RED 070, or permission of EFL Coordinator
Corequisites: None

This course is designed to enhance reading and comprehension skills for advanced non-native speakers of English. Emphasis is placed on understanding academic texts and developing effective note taking skills through the use of supplementary learning media and materials. Upon completion, students should be able to differentiate between main points, supporting and extraneous information, and take organized notes on lectures and texts. Course Hours Per Week: Class, 0. Lab, 2. Semester Hours Credit, 1.

ENGINEERING

EGR 131 Introduction to Electronics Technology

Prerequisites: None
Corequisites: None

This course introduces the basic skills required for electrical/electronics technicians. Topics include soldering/desoldering, safety practices, test equipment, scientific calculators, AWG wire table, the resistor color code, electronic devices, problem solving, and use of hand tools. Upon completion, students should be able to solder/desolder, operate test equipment, apply problem-solving techniques, and use a scientific calculator. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

ENVIRONMENTAL HEALTH AND SAFETY

EHS 111 Occupational Safety/Engineering

Prerequisites: None
Corequisites: None

This course covers recognition, control, and regulation of safety hazards in the workplace. Topics include accident investigation, Workers Compensation, record keeping, training, machine guarding, facilities, personal protection, and fire protection. Upon completion, students should be able to recognize safety hazards and recommend strategies for remediation and compliance. Course Hours Per Week: Class, 5. Semester Hours Credit, 5.

EHS 112 Industrial Hygiene

Prerequisites: None
Corequisites: None

This course emphasizes the recognition, evaluation, and control of occupational health hazards. Topics include hazard recognition, health standards, air sampling, ventilation, noise exposure, and temperature stress. Upon completion, students should be able to identify and quantify common occupational health hazards. Course Hours Per Week: Class, 5. Semester Hours Credit, 5.

EHS 113 OSHA Electrical Safety

Prerequisites: None
Corequisites: None

This course covers OSHA electrical safety regulations that apply to general industry. Emphasis is on controlling electrical hazards in the workplace, understanding ground paths, recognizing electrical hazards, and interpreting electrical standards. Upon completion, students should be able to demonstrate an understanding of OSHA safety regulations within general industry. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

EHS 114 OSHA Regulations

Prerequisites: None

Corequisites: None

This course emphasizes application of OSHA performance-oriented standards for workplace safety and health. Topics include hazard communication, bloodborne pathogens, and the laboratory standard. Upon completion, students should be able to implement written plans required for compliance.

Course Hours Per Week: Class, 4. Semester Hours Credit, 4.

EHS 116 Environmental Management

Prerequisites: None

Corequisites: None

This course covers management of hazardous materials and hazardous waste in industrial and institutional settings. Emphasis is on compliance with the applicable regulations of the U.S. Environmental Protection Agency and the U.S. Department of Transportation, as enforced by North Carolina agencies. Upon completion, students should be able to implement appropriate compliance strategies. Course Hours Per Week: Class, 4. Semester Hours Credit, 4.

EHS 211 Environmental Health and Toxicology

Prerequisites: None

Corequisites: None

This course covers the many effects of environmental agents (chemical, physical and biological) on human health. Particular emphasis is on principles of toxicology and federal regulations relevant to environmental health. Upon completion, students should be able to recommend rational strategies for the control of chemical hazards in the occupational and general environment. Course Hours Per Week: Class, 5. Semester Hours Credit, 5.

EHS 212 Industrial Hygiene Sampling

Prerequisites: None

Corequisites: None

This course covers industrial hygiene and sampling. Topics include the calibration and operation of sampling equipment and instruments. Upon completion, students should be able to perform basic industrial hygiene sampling procedures and interpret the results. In addition, the course covers applications and use of personal protective equipment. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

EHS 215 Incident Management

Prerequisites: None

Corequisites: None

This course introduces management of hazardous materials and incidents. Topics include analysis and application of the Incident Command System from the discovery of a hazardous substance release to decontamination and termination procedures. Upon completion, students should be able to demonstrate an understanding of the roles and responsibilities of hazardous materials team members. This course provides

OSHA HAZWOPER standard certification at the awareness, operations, and technician level. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

EHS 218 Occupational Ergonomics

Prerequisites: None

Corequisites: None

This course emphasizes recognition of musculoskeletal disorders in institutional, office, and industrial settings. Topics include anthropometry, working postures, task analysis, manual materials handling, lifting equations, and environmental factors. Upon completion, students should be able to recognize ergonomic problems and recommend appropriate control measures. Course Hours Per Week: Class 3. Semester Hours Credit, 3.

EHS 219 Radiation Protection

Prerequisites: None

Corequisites: None

This course covers theory, detection, health effects, and regulation of ionizing radiation. Particular emphasis is on compliance with federal regulations in the occupational setting. Upon completion, students should be able to aid in implementation of a radiation protection program in an industrial or institutional setting. Course Hours Per Week: Class, 3. Semester Hours Credit, 3

ELECTRICITY

ELC 112 DC/AC Electricity

Prerequisites: None

Corequisites: 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. Course Hours Per Week: Class, 3. Lab, 6. Semester Hours Credit, 5.

ELC 113 Basic Wiring I

Prerequisites: None

Corequisites: None

This course introduces the care and use of tools and materials used in electrical installations as well as the requirements of the National Electrical Code. Topics include 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. Course Hours Per Week: Class, 2. Lab, 6. Semester Hours Credit, 4.

ELC 115 Industrial Wiring

Prerequisites: ELC 113

Corequisites: None

This course covers layout, planning, and installation of wiring systems in industrial facilities. Emphasis is on industrial wiring methods and materials. Upon completion, students should be able to install industrial systems and equipment. Course Hours Per Week: Class, 2. Lab, 6. Semester Hours Credit, 4.

ELC 117 Motors and Controls

Prerequisites: ELC 112 or ELC 131

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. Course Hours Per Week: Class, 2. Lab, 6. Semester Hours Credit, 4.

ELC 118 National Electrical Code

Prerequisites: None

Corequisites: None

This course covers the use of the current National Electrical Code. Topics include the National Electric Code (NEC) history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

ELC 127 Software for Technicians

Prerequisites: None

Corequisites: 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. Class, 1. Lab, 3. Semester Hours Credit, 2.

ELC 127 Software for Technicians

Prerequisite: None

Corequisite: None

This course introduces computer software which can be used to solve electrical/electronics problems. Topics include electrical/electronics calculations, applications, and controls. Upon completion, students should be able to utilize a personal computer for electrical/electronics-related applications. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

ELC 128 Introduction to PLC

Prerequisites: ELC 117

Corequisites: 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 and installation of controllers, and interfacing of controllers with equipment. Upon completion, students should be able to install PLCs and create simple programs. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

ELC 131 DC/AC Circuit Analysis

Prerequisites: None

Corequisites: MAT 121

This course introduces DC and AC electricity with emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation software, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment. Course Hours Per Week: Class, 4. Lab, 3. Semester Hours Credit, 5.

ELC 135 Electrical Machines I

Prerequisites: ELC 112 or ELC 131

Corequisites: None

This course covers magnetic circuits, transformers, DC/AC generators, and a review of the three-phase circuit fundamentals, including power factor. Topics include magnetic terms and calculations, transformer calculations based on primary or secondary equivalent circuits, and generator regulation and efficiency calculations. Upon completion, students should be able to perform regulation and efficiency calculations for DC/AC single- and three-phase transformer and generator circuits. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

ELC 136 Electrical Machines II

Prerequisites: ELC 135

Corequisites: None

This course covers DC/AC motor fundamentals, including applications and control. Topics include control devices, synchronous and induction single and polyphase AC motors, DC motors, stepper, and special purpose motors. Upon completion, students should be able to perform regulation and efficiency calculations and apply motor theory to practical control applications. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

ELC 213 Instrumentation

Prerequisites: ELC 112 or ELC 131

Corequisites: None

This course covers the fundamentals of instrumentation used in industry. Emphasis is on electric, electronic, and other instruments. Upon completion, students should be able to install, maintain, and calibrate instrumentation. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ELC 215 Electrical Maintenance

Prerequisites: ELC 117

Corequisites: None

This course introduces the theory of maintenance and the skills necessary to maintain electrical equipment used in industrial and commercial facilities. Topics include maintenance theory, predictive and preventive maintenance, electrical equipment operation and maintenance, and maintenance documentation. Upon completion, students should be able to perform maintenance on electrical equipment in industrial and commercial facilities. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

ELC 228 PLC Applications

Prerequisites: ELC 128

Corequisites: None

This course continues the study of the programming and applications of programmable logic controllers. Emphasis is on advanced programming, networking, advanced I/O modules, reading and interpreting error codes, and troubleshooting. Upon completion, students should be able to program and troubleshoot programmable logic controllers. Course Hours Per Week: Class, 2. Lab, 6. Semester Hours Credit, 4.

ELECTRONICS

ELN 131 Semiconductor Applications

Prerequisites: ELC 131

Corequisites: MAT 122

This course introduces the characteristics and applications of semiconductor devices and circuits. Emphasis is 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. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

ELN 132 Linear IC Applications

Prerequisites: ELN 131

Corequisites: 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. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

ELN 133 Digital Electronics

Prerequisites: ELC 112 or ELC 131 and MAT 145

Corequisites: None

This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, MSI and LSI circuits, AC/DC converters, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

ELN 210 Introduction to Microelectronics

Prerequisites: None

Corequisites: None

This course introduces the field of microelectronics and semiconductor processing. Topics include an overview of the industry, job requirements and opportunities, vocabulary, and types of microelectronics devices manufactured. Upon completion, students should be able to demonstrate an understanding of the basics of semiconductor materials, properties, and fabrication procedures. This course is a unique concentration requirement in the Microelectronics concentration of the Electronics Engineering Technology program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ELN 215 Semiconductor Physics

Prerequisites: ELN 131 or ELN 210

Corequisites: None

This course introduces solid state physics and emphasizes semiconductors. Topics include quantum physics, the atom, solid state devices, and semiconductor and integrated circuit fabrication techniques. Upon completion, students should be able to apply these principles of physics to basic semiconductor fabrication. This course is a unique concentration requirement in the Microelectronics concentration of the Electronics Engineering Technology program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ELN 220 Semiconductor Analysis

Prerequisites: ELN 210

Corequisites: None

This course covers the field of microelectronics and semiconductor processing. Topics include circuit layout, mask making, photolithography diffusion, and thin-film processes for wafer fabrication. Upon completion, students should be able to identify different types of measuring, testing, and inspection equipment used for microelectronics circuits and understand failure analysis. This course is a unique concentration requirement in the Microelectronics concentration of the Electronics Engineering Technology program. Course Hours Per Week: Class, 2. Lab, 4. Semester Hours Credit, 4.

ELN 225 Microprocessing Design

Prerequisites: ELN 215

Corequisites: None

This course provides an in-depth study of the field of microelectronics and microchip processing technology. Topics include oxidation, diffusion, photolithography, and metallization. Upon completion, students should be able to demonstrate an understanding of bipolar and unipolar IC processes developed by a study of design rules and other process parameters. This course is a unique concentration requirement in the Microelectronics concentration of the Electronics Engineering Technology program. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ELN 229 Industrial Electronics

Prerequisites: ELC 112, ELC 131, or ELC 140

Corequisites: None

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. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

ELN 232 Introduction to Microprocessors

Prerequisites: ELN 133

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. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

ELN 234 Communication Systems

Prerequisites: ELN 132 or ELN 140 and MAT 122

Corequisites: None

This course introduces the fundamentals of electronic communication systems. Topics include the frequency spectrum, electrical noise, modulation techniques, characteristics of transmitters and receivers, and digital communications. Upon completion, students should be able to interpret analog and digital communication circuit diagrams, analyze transmitter and receiver circuits, and use appropriate communication test equipment. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

ELN 236 Fiber Optics and Lasers

Prerequisites: None

Corequisites: None

This course introduces the fundamentals of fiber optics and lasers. Topics include the transmission of light, characteristics of fiber optic and lasers and their systems, fiber optic production, types of lasers, and laser safety. Upon completion, students should be able to understand fiber optic communications and basic laser fundamentals. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ELN 247 Electronic Application Project

Prerequisites: ELN 131

Corequisites: None

This course provides a structured approach to an application electronics project. Emphasis is on selecting, planning, implementing, testing, and presenting an application-oriented project. Upon completion, students should be able to present and demonstrate an electronics application-oriented project. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

ELN 275 Troubleshooting

Prerequisites: ELN 232 and ELN 234

Corequisites: ELN 133

This course covers techniques for analyzing and repairing failures in electronic equipment. Topics include safety, signal tracing, use of service manuals, and specific troubleshooting methods for analog, digital, and other electronics-based circuits and systems. Upon completion, students should be able to diagnose and isolate faults logically and perform necessary repairs to meet manufacturers' specifications. Course Hours Per Week: Class, 1. Lab, 3 Semester Hours Credit, 2.

EMERGENCY MEDICAL SCIENCE

EMS 110 EMT-Basic

Prerequisites: None

Corequisites: None

This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to

demonstrate the skills necessary to achieve North Carolina State or National Registry EMT-Basic certification. Course Hours Per Week: Class, 5. Lab, 6. Semester Hours Credit, 7.

ENGLISH

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by the college's placement test.

ENG 070 Basic Language Skills

Prerequisites: None

Corequisites: None

This course introduces the fundamentals of standard written English. Emphasis is on effective word choice, recognition of sentences and sentence parts, and basic usage. Upon completion, students should be able to generate sentences that clearly express ideas. Students compose sentences in standard written English using all verb tenses and correct punctuation. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

ENG 080 Writing Foundations

Prerequisites: ENG 070 or satisfactory score on placement test

Corequisites: None

This course introduces the writing process and stresses effective sentences. Emphasis is on applying the conventions of written English as well as reflecting standard usage and mechanics in structuring a variety of sentences. Upon completion, students should be able to write correct sentences and a unified, coherent paragraph. Students are introduced to the standard essay form. This course does not satisfy the developmental reading and writing prerequisite for ENG 111. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

ENG 090 Composition Strategies

Prerequisites: ENG 080 or satisfactory score on placement test

Corequisites: ENG 090A

This course provides practice in the writing process and stresses effective paragraphs. Emphasis is 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. Students write essays responding to assigned readings and using different rhetorical modes. This course satisfies the developmental writing prerequisite for ENG 111; the developmental reading prerequisite for ENG 111 must also be met. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 090A Composition Strategies Lab

Prerequisites: ENG 080, or satisfactory score on placement test

Corequisites: ENG 090

This writing lab is designed for practicing the skills introduced in ENG 090. Emphasis is on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay. Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

ENG 095 Reading and Composition Strategies

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test

Corequisites: ENG 095A

This course uses whole language to strengthen proficiency in reading and writing for college. Emphasis is 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. Some sections may be discipline specific. This course integrates ENG 090 and RED 090. This course satisfies the developmental reading and writing prerequisites for ENG 111. Course Hours Per Week: Class, 5. Semester Hours Credit, 5.

ENG 095A Reading and Composition Strategies Lab

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test

Corequisites: ENG 095

This laboratory provides the opportunity to practice the skills introduced in ENG 095. Emphasis is on applying critical reading skills to narrative and expository texts and on the writing process. Upon completion, students should be able to apply those skills in producing effective essays as preparation for college writing. Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

ENG 111 Expository Writing

Prerequisites: ENG 090 and RED 090, or ENG 095, or satisfactory score on placement test

Corequisite: None

This is the required first course in a series of two designed to develop the ability to produce clear expository prose. Emphasis is 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. Students should also be able to respond critically to readings and demonstrate an understanding of the fundamentals of research and documentation. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in English composition.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 112 Argument-Based Research

Prerequisite: ENG 111

Corequisite: None

This course, the second in a series of two, introduces research techniques, documentation styles, and argumentative strategies. Emphasis is 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. Students should also be able to present material orally in a clear and logical format. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in English composition.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 113 Literature-Based Research

Prerequisite: ENG 111

Corequisite: None

This course, the second in a series of two, expands the concepts developed in ENG 111 by focusing on writing that involves literature-based research and documentation. Emphasis is on critical reading and thinking as well

as the analysis and interpretation of prose, poetry, and drama, including plot, characterization, theme, and cultural context. Upon completion, students should be able to construct mechanically-sound, documented essays and research papers that analyze and respond to literary works. Students should also be able to present material orally in a clear and logical format. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in English composition.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 135 Introduction to Short Fiction

Prerequisite: ENG 111

Corequisites: ENG 112 or ENG 113, or ENG 114

This course provides intensive study of short fiction as a literary form based on close reading of representative texts. Emphasis is on the development and analysis of short fiction. Upon completion, students should be able to interpret, analyze, and discuss the distinguishing features of short fiction. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 231 American Literature I

Prerequisites: ENG 112 or ENG 113

Corequisites: None

This course covers selected works in American literature from its beginnings to 1865. Emphasis is on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 232 American Literature II

Prerequisites: ENG 112 or ENG 113

Corequisites: None

This course covers selected works in American literature from 1865 to the present. Emphasis is on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 233 Major American Writers

Prerequisites: ENG 112 or ENG 113

Corequisites: None

This course provides an intensive study of the works of several major American authors. Emphasis is on American history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 241 British Literature I
Prerequisites: ENG 112 or ENG 113
Corequisites: None

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 242 British Literature II
Prerequisites: ENG 112 or ENG 113
Corequisites: None

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 243 Major British Writers
Prerequisites: ENG 112 or ENG 113
Corequisites: None

This course provides an intensive study of the works of several major British authors. Emphasis is on British history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 251 Western World Literature I
Prerequisites: ENG 112 or ENG 113
Corequisites: None

This course provides a survey of selected European works from the Classical period through the Renaissance. Emphasis is on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 252 Western World Literature II
Prerequisites: ENG 112 or ENG 113
Corequisites: None

This course provides a survey of selected European works from the Neoclassical period to the present. Emphasis is on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. *This*

course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 261 World Literature I

Prerequisites: ENG 112 or ENG 113

Corequisites: None

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. Emphasis is on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 262 World Literature II

Prerequisites: ENG 112 or ENG 113

Corequisites: None

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 272 Southern Literature

Prerequisites: ENG 112 or ENG 113

Corequisites: None

This course provides an analytical study of the works of several Southern authors. Emphasis is on the historical and cultural contexts, themes, aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 273 African-American Literature

Prerequisites: ENG 112 or ENG 113

Corequisites: None

This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ENG 274 Literature by Women

Prerequisites: ENG 112 or ENG 113

Corequisites: None

This course provides an analytical study of the works of several women authors. Emphasis is on the historical and cultural contexts, themes and aesthetic features of individual works, and biographical backgrounds of the

authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EMERGENCY PREPAREDNESS

EPT 120 Sociology of Disaster

Prerequisite: None

Corequisite: None

This course provides an overview of sociological disaster research, disaster systems, and alternative research approaches. Topics include human and organizational behaviors, long-term disaster impact on communities, disaster warning, and evacuation considerations. Upon completion, students should be able to assess and predict the impact of disaster-related human behavior. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EPT 150 EMS Incident Management

Prerequisite: None

Corequisite: None

This course covers the fully integrated incident management system for EMS response to high-impact incidents. Topics include mass casualty incidents, terrorist events, communications, training, triage, and law and fire incident command. Upon completion, students should be able to implement and operate within the National Incident Management System. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

EPT 210 Disaster Response Operations and Management

Prerequisite: FIP 236

Corequisite: None

This course covers the basic concepts and operational procedures and authorities involved in responding to major disasters. Topics include federal, state, and local roles and responsibilities in major disaster recovery work, with an emphasis on governmental coordination. Upon completion, students should be able to implement a disaster plan and assess the needs of those involved in a major disaster. Course Hours Per Week: Class, 3. Lab, 0. Semester Hours Credit, 3

EPT 220 Terrorism and Emergency Management

Prerequisite: EPT 210

Corequisite: None

This course covers preparing for, responding to, and safely mitigating incidents of terrorism. Topics include the history of terrorism, scene hazards, evidence preservation, risk assessment, roles and responsibilities of emergency managers, explosive recognition, and terrorism planning. Upon completion, students should be able to recognize the threat of terrorism and operate within the emergency management framework at terrorism incidents. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

EPT 275 Emergency Operations Center Management

Prerequisite: FIP 236

Corequisite: None

This course provides students the knowledge and skills to effectively manage and operate an Emergency Operations Center (EOC) during crisis situations. Topics include properly locating and designing an EOC; staffing, training and briefing EOC personnel; and how to operate an EOC. Upon completion, students should be able to demonstrate how to set up and operate an effective Emergency Operations Center. Course Hours Per Week: Class, 3. Lab, 0. Semester Hours Credit, 3

FIRE PROTECTION

FIP 120 Introduction to Fire Protection

Prerequisites: None

Corequisites: None

This course provides an overview of the history, development, methods, systems, and regulations as they apply to the fire protection field. Topics include history, evolution, statistics, suppression, organizations, careers, curriculum, and other related topics. Upon completion, students should be able to demonstrate a broad understanding of the fire protection field. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 124 Fire Prevention and Public Education

Prerequisites: None

Corequisites: None

This course introduces fire prevention concepts as they relate to community and industrial operations. Topics include the development and maintenance of fire prevention programs, educational programs, and inspection programs. Upon completion, students should be able to research, develop, and present a fire safety program to a citizen or industrial group, meeting NFPA 1021. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 128 Detection and Investigation

Prerequisites: None

Corequisites: None

This course covers procedures for determining the origin and cause of accidental and incendiary fires. Topics include collection and preservation of evidence, detection and determination of accelerants, courtroom procedure and testimony, and documentation of the fire scene. Upon completion, students should be able to conduct a competent fire investigation and present those findings to appropriate officials or equivalent, meeting NFPA 1021. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 132 Building Construction

Prerequisites: None

Corequisites: None

This course covers the principles and practices related to various types of building construction, including residential and commercial, as impacted by fire conditions. Topics include types of construction and related elements, fire-resistive aspects of construction materials, building codes, collapse, and other related topics. Upon completion, students should be able to understand and recognize various types of construction as related to fire conditions. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

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FIP 136 Inspections and Codes

Prerequisites: None

Corequisites: None

FIP 144 Sprinklers and Automatic Alarms

Prerequisites: None

Corequisites: None

This course introduces various types of automatic sprinklers, standpipes, and fire alarm systems. Topics include wet or dry systems, testing and maintenance, water supply requirements, fire detection and alarm systems, and other related topics. Upon completion, students should be able to demonstrate a working knowledge of various sprinkler and alarm systems as well as required inspection and maintenance. In addition, students study sprinkler systems and automatic alarms as they relate to selected NFPA standards. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

FIP 152 Fire Protection Law

Prerequisites: None

Corequisites: None

This course covers fire protection law. Topics include torts, legal terms, contracts, liability, review of case histories, and other related topics. Upon completion, students should be able to discuss laws, codes, and ordinances as they relate to fire protection. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 160 Fire Protection/Electrical

Prerequisites: MAT 115

Corequisites: None

This course covers the methods and means of electrical installations and their uses as related to fire. Topics include basic electrical theories, wiring methods, electrical components and circuitry, and an introduction to the National Electrical Code. Upon completion, students should be able to demonstrate a basic knowledge of electricity, including its uses, characteristics, and hazards. This course also assists students in understanding how electrical fires may develop and in conducting electrical fire examinations in the context of NFPA 921, Guide for Fire and Explosion Investigations. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

FIP 160A Fire Protection/Electrical Lab

Prerequisites: None

Corequisites: FIP 160

This course provides practical applications to support FIP 160. Topics include switching devices, basic circuits, electrical distribution, and other related topics. Upon completion, students should be able to demonstrate knowledge of basic electrical equipment and hazards as related to fire protection. Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

FIP 164 OSHA Standards

Prerequisite: None

Corequisite: None

This course covers public and private sector OSHA work site requirements. Emphasis is on accident prevention and reporting, personal safety, machine operation, and hazardous material handling. Upon completion, students should be able to analyze and interpret specific OSHA regulations and write workplace policies designed to achieve compliance. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 180 Wildland Fire Behavior

Prerequisites: None

Corequisites: None

This course covers the principles of wildland fire behavior and meteorology. Emphasis is on fire calculations, fuels, and related weather effects. Upon completion, students should be able to demonstrate and apply fire behavior theories through written and performance evaluations. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 188 Introduction to Wildland Fires

Prerequisites: None

Corequisites: None

This course introduces basic wildland fire suppression functions. Emphasis is on the operation of tools, equipment, aircraft, and basic fire suppression methods. Upon completion, students should be able to understand basic theories in wildland fire suppression and demonstrate them through written and performance evaluations. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

FIP 220 Fire Fighting Strategies

Prerequisites: None

Corequisites: None

This course provides preparation for command of initial incident operations involving emergencies within both the public and private sector. Topics include incident management, fire-ground tactics and strategies, incident safety, and command/control of emergency operations. Upon completion, students should be able to describe the initial incident system as it relates to operations involving various emergencies in fire and non-fire situations, meeting NFPA 1021. Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 221 Advanced Fire Fighting Strategies

Prerequisites: FIP 220

Corequisites: None

This course covers command-level operations for multi-company/agency operations involving fire and non-fire emergencies. Topics include advanced ICS, advanced incident analysis, command-level fire operations, and control of both manmade and natural major disasters. Upon completion, students should be able to describe proper and accepted systems for mitigating emergencies at the level of overall scene command. In addition, students study advanced fire strategies as they relate to selected NFPA standards. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 224 Instructional Methodology

Prerequisites: None

Corequisites: None

This course covers the knowledge, skills, and abilities needed to train others in fire service operations. Topics include planning, presenting, and evaluating lesson plans; learning styles; use of media; communication; and other related topics. Upon completion, students should be able to meet all requirements of NFPA 1041 and NFPA 1021. Course Hours Per Week: Class, 4. Semester Hours Credit, 4.

FIP 228 Local Government Finance

Prerequisites: None

Corequisites: None

This course introduces local governmental financial principles and practices. Topics include budget preparation and justification, revenue policies, statutory requirements, taxation, audits, and the economic climate. Upon completion, students will be able to comprehend the importance of finance as it applies to the operation of a department. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 230 Chemistry of Hazardous Materials I

Prerequisites: None

Corequisites: None

This course covers the evaluation of hazardous materials. Topics include use of the periodic table, hydrocarbon derivatives, placards and labels, parameters of combustion, and spill and leak mitigation. Upon completion, students should be able to demonstrate knowledge of the chemical behavior of hazardous materials. Course Hours Per Week: Class, 5. Semester Hours Credit, 5.

FIP 232 Hydraulics and Water Distribution

Prerequisites: MAT 115

Corequisites: None

This course covers the flow of fluids through fire hoses, nozzles, appliances, pumps, standpipes, water mains, and other devices. Emphasis is on supply and delivery systems, fire flow testing, hydraulic calculations, and other related topics. Upon completion, students should be able to perform hydraulic calculations, conduct water availability tests, and demonstrate knowledge of water distribution systems. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

FIP 236 Emergency Management

Prerequisites: None

Corequisites: None

This course covers the four phases of emergency management: mitigation, preparedness, response, and recovery. Topics include organizing for emergency management, coordinating for community resources, public sector liability, and the roles of government agencies at all levels. Upon completion, students should be able to demonstrate an understanding of comprehensive emergency management and the integrated emergency management system. In addition, students study areas of emergency management as they relate to selected NFPA standards. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 240 Fire Service Supervision

Prerequisites: None

Corequisites: None

This course covers fire protection systems in industrial facilities. Emphasis is on supervisory skills in the fire protection field. Upon completion, students should be able to state the responsibilities of supervisors which meet elements of NFPA 1021 for Fire Officer I and II. Class Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 244 Fire Protection Project

Prerequisites: FIP 120, FIP124, FIP128, FIP 132, FIP 220

Corequisites: None

This course provides an opportunity to apply knowledge covered in previous courses to employment situations that the fire protection professional will encounter. Emphasis is on the development of comprehensive and

professional practices. Upon completion, students should be able to demonstrate knowledge of the fire protection service through written and performance evaluations. In addition, this course assesses critical competencies within the Fire Protection program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 248 Fire Service Personnel Administration

Prerequisites: None

Corequisites: None

This course covers the basics of setting up and administering the personnel functions of fire protection organizations. Emphasis is on human resource planning, classification and job analysis, equal opportunity employment, affirmative action, recruitment, retention, development, performance evaluation, and assessment centers. Upon completion, students should be able to demonstrate knowledge of the personnel function as it relates to managing fire protection. In addition, students study areas of personnel administration as they relate to selected NFPA standards. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 256 Municipal Public Relations

Prerequisites: None

Corequisites: None

This course is a general survey of municipal public relations and their effect on the governmental process. Topics include principles of public relations, press releases, press conferences, public information officers, image surveys, and the effects of perceived service on fire protection delivery. Upon completion, students should be able to manage the public relations functions of a fire service organization, which meet elements of NFPA 1021 for Fire Officer I and II. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 260 Fire Protection Planning

Prerequisites: None

Corequisites: None

This course covers the need for a comprehensive approach to fire protection planning. Topics include the planning process, using an advisory committee, establishing goals and objectives, and techniques used to approve and implement a plan. Upon completion, students should be able to demonstrate a working knowledge of the concepts and principles of planning as they relate to fire protection. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 264 Flame Properties and Materials Rating

Prerequisites: None

Corequisites: None

This course covers the role of interior finishes in fires, smoke obscuration and density, flame spread, pyrolysis, and other related topics. Emphasis is on testing equipment, which includes Rack Impingement, Bench Furnace, and the two-foot tunnel. Upon completion, students should be able to understand the operation of the testing equipment and compile a reference notebook. In addition, students study areas as they relate to selected NFPA standards. Course Hours Per Week: Class, 1. Lab, 4. Semester Hours Credit, 3.

FIP 268 Wildland Fire Management

Prerequisites: None

Corequisites: None

This course introduces wildland fire organization and management. Emphasis is on the Incident Command System and the National Interagency Management System. Upon completion, students should be able to understand and apply the Incident Command System and the National Interagency Management System through written evaluations. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FIP 272 Wildland Fire Strategy

Prerequisites: None

Corequisites: None

This course covers wildland fire strategy and the determination of appropriate wildland fire tactics. Emphasis is on the use of ground forces, aircraft, and extinguishing agents. Upon completion, students should be able to develop strategy and tactics for responding to a wildland fire through written and performance evaluations. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

FIP 276 Managing Fire Services

Prerequisites: None

Corequisites: None

This course provides an overview of fire department operative services. Topics include finance, staffing, equipment, code enforcement, management information, specialized services, legal issues, planning, and other related topics. Upon completion, students should be able to understand concepts and apply fire department management and operations principles, meeting NFPA 1021. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FRENCH

FRE 111 Elementary French I

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test

Corequisites: FRE 181 and ENG 090, or satisfactory score on placement test

This course introduces the fundamental elements of the French language within a cultural context. Emphasis is on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French as well as demonstrate cultural awareness. This course must be taken with the accompanying lab. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FRE 112 Elementary French II

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test, and FRE 111

Corequisites: FRE 182 and ENG 090 or satisfactory score on placement test

This course, a continuation of FRE 111, focuses on the fundamental elements of the French language within a cultural context. Emphasis is on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. This course must be taken with the accompanying lab. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

FRE 181 French Lab 1

Prerequisites: None

Corequisites: FRE 111

This course provides an opportunity to enhance acquisition of the fundamental elements of the French language. Emphasis is on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French as well as demonstrate cultural awareness. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

FRE 182 French Lab 2

Prerequisites: FRE 181

Corequisites: FRE 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the French language. Emphasis is on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French as well as demonstrate cultural awareness. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

FRE 211 Intermediate French I

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test, and FRE 112

Corequisites: ENG 090 or satisfactory score in placement test

This course provides a review and expansion of the essential skills of the French language. Emphasis is 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 for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

GEOLOGY

GEL 111 Introductory Geology

Prerequisites: ENG 090, RED 090, and MAT 070 or satisfactory score on placement test

Corequisites: None

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, sfluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth. Students should also be familiar with important time periods associated with the evolution of the earth and its life forms. *This course has been approved to satisfy the Comprehensive Articulation general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

GEL 113 Historical Geology

Prerequisites: GEL 111

Corequisite: None

This course covers the geological history of the earth and its life forms. Emphasis is 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

GEOGRAPHY

GEO 111 World Regional Geography

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

GEO 112 Cultural Geography

Prerequisites: ENG 090 or RED 090, or satisfactory score on placement test

Corequisites: None

This course is designed to explore the diversity of human cultures and to describe their shared characteristics. Emphasis is on the characteristics, distribution, and complexity of earth's cultural patterns. Upon completion, students should be able to demonstrate an understanding of the differences and similarities in human cultural groups. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

GERMAN

GER 111 Elementary German I

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test

Corequisites: GER 181 and ENG 090, or satisfactory score on placement test

This course introduces the fundamental elements of the German language within a cultural context. Emphasis is on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written German and demonstrate cultural awareness. This course must be taken with the accompanying lab. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

GER 112 Elementary German II

Prerequisite: ENG 080 and RED 080, or satisfactory score on placement test, and GER 111

Corequisite: GER 182 and ENG 090, or satisfactory score on placement test

This course, a continuation of GER 111, focuses on the fundamental elements of the German language within a cultural context. Emphasis is on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and

written German as well as demonstrate further cultural awareness. *This course must be taken with the accompanying lab. This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

GER 181 German Lab I

Prerequisite: None

Corequisite: GER 111

This course provides an opportunity to enhance acquisition of the fundamental elements of the German language. Emphasis is on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written German as well as demonstrate cultural awareness. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

GER 182 German Lab II

Prerequisites: GER 181

Corequisites: GER 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the German language. Emphasis is on the progressive development of basic listening, speaking, reading, and writing skills through the use of supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written German as well as demonstrate cultural awareness. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

GER 211 Intermediate German I

Prerequisites: GER 112, ENG 080 and RED 080, or satisfactory score on placement test

Corequisites: ENG 090, or satisfactory score on placement test

This course provides a review and expansion of the essential skills of the German language. Emphasis is on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HEALTH

HEA 110 Personal Health/Wellness

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test

Corequisites: None

This course provides an introduction to basic personal health and wellness. Emphasis is 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 maintain health and wellness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HEA 112 First Aid and CPR

Prerequisites: None

Corequisites: ENG 080 and RED 080, or satisfactory score on placement test

This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

HISTORY**HIS 111 World Civilizations I**

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HIS 112 World Civilizations II

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HIS 121 Western Civilization I

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course introduces western civilization from pre-history to the early modern era. Topics include ancient Greece, Rome, and Christian institutions of the Middle Ages and the emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization. This course is designed for students who may take other upper-level history courses. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HIS 122 Western Civilization II

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization. This course is designed for students who may take other upper-level history courses. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HIS 131 American History I

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: 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. Native Americans, minorities, women, and representative biographies are also examined. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HIS 132 American History II

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. Native Americans, minorities, women, and representative biographies are also examined. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HIS 151 Hispanic Civilization

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisite: None

This course surveys the cultural history of Spain and its impact on the New World. Topics include Spanish and Latin American culture, literature, religion, and the arts. Upon completion, students should be able to analyze the cultural history of Spain and Latin America. The main emphasis is on continuity and change in Latin American culture throughout the 20th century. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HEALTH INFORMATION TECHNOLOGY

HIT 110 Fundamentals of HIM

Prerequisites: None

Corequisites: None

This course introduces Health Information Management (HIM) and its role in healthcare delivery systems. Topics include external standards, regulations, and initiatives; payment and reimbursement systems and healthcare providers and disciplines. Upon completion, students should be able to demonstrate an understanding of health information management and healthcare organizations, professions, and trends. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

HIT 112 Health Law and Ethics

Prerequisites: None

Corequisites: None

This course covers legislative and regulatory processes, legal terminology, and professional-related and practice-related ethical issues. Topics include confidentiality; privacy and security policies, procedures and monitoring; release of information policies and procedures; and professional-related and practice-related ethical issues. Upon completion, students should be able to apply policies and procedures for access and disclosure of Protected Health Information and apply and promote ethical standards. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HIT 114 Health Data Sys/Standards

Prerequisites: None

Corequisites: None

This course covers basic concepts and techniques for managing and maintaining health data systems. Topics include structure and use of health information including collection tools, data sources and sets, storage and retrieval, quality and integrity of healthcare data. Upon completion, students should be able to monitor and apply organization-wide health data documentation guidelines and comply with regulatory standards. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

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HIT 124 Prof Practice Exp II

Prerequisites: Enrollment in the Health Information Technology program and permission of the program director

Corequisites: None

This course provides supervised clinical experience in healthcare settings. Emphasis is on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices. The majority of clinical sites are offered during the day. Course Hours Per Week: Class, 1. Clinical, 3. Semester Hours Credit, 2.

HIT 210 Healthcare Statistics

Prerequisites: MAT 140 and MAT 140A

Corequisites: None

This course covers maintenance, compilation, analysis, and presentation of healthcare statistics and research protocols and techniques. Topics include basic statistical principles, indices, databases, registries, vital statistics, descriptive statistics, research protocol monitoring, Institutional Review Board processes, and knowledge-based research techniques. Upon completion, students should be able to apply, interpret, and present healthcare statistics and utilize research techniques to gather and interpret healthcare data. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

HIT 212 ICD-9-CM Coding

Prerequisites: Enrollment in Health Information Technology program and permission of the program director

Corequisites: None

This course covers ICD-9-CM diagnostic and procedural coding according to the guidelines of the Cooperating Parties. Emphasis is on coding conventions and rules, methodology and sequencing, data sets, documentation requirements, data retrieval, quality control, and use of coding resources. Upon completion, students should be able to apply coding principles to correctly assign ICD-9-CM diagnostic and surgical codes. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

HIT 214 CPT/Other Coding Systems

Prerequisites: HIT 212 and enrollment in the Health Information Technology program

Corequisites: None

This course covers application of principles and guidelines of CPT/HCPCS coding. Topics include clinical classification/nomenclature systems such as SNOMED, DSM, ICD-O and the use of encoders. Upon completion, students should be able to apply coding principles to correctly assign CPT/HCPCS codes. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2

HIT 215 Reimbursement Methodology

Prerequisites: None

Corequisites: None

This course covers reimbursement methodologies used in all healthcare settings as they relate to national billing, compliance, and reporting requirements. Topics include prospective payment systems, billing process and procedures, chargemaster maintenance, regulatory guidelines, reimbursement monitoring, and compliance strategies and reporting. Upon completion, students should be able to perform data quality reviews to validate code assignment and comply with reimbursement and reporting requirements. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2

HIT 216 Quality Management

Prerequisites: Enrollment in Health Information Technology program and HIT 114

Corequisites: None

This course introduces principles of quality assessment and improvement, and utilization, risk, and case management, in healthcare. Topics include Continuous Quality Improvement, and case management processes, data analysis/reporting techniques, credentialing, regulatory quality monitoring requirements, and outcome measures and monitoring. Upon completion, students should be able to abstract, analyze, and report clinical data for facility-wide quality management/performance improvement programs and monitor compliance measures. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2

HIT 220 Computers in Healthcare

Prerequisites: HIT 114 and CIS 110 or CIS 111

Corequisites: None

This course covers electronic health information systems and their design, implementation, and application. Topics include voice recognition and imaging technology, information security and integrity, data dictionaries,

modeling, and warehousing to meet departmental needs. Upon completion, students should be able to apply policies/procedures to facilitate electronic health records and other administrative applications. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

HIT 222 Prof Practice Exp III

Prerequisites: Enrollment in the Health Information Technology program and permission of the program director
Corequisites: None

This course provides supervised clinical experience in healthcare settings. Emphasis is on practical application of curriculum concepts to the healthcare setting. Upon completion, students should be able to apply health information theory to healthcare facility practices. Course Hours Per Week: Clinical, 6. Semester Hours Credit, 2.

HIT 226 Principles of Disease

Prerequisites: BIO 169 and MED 121
Corequisites: MED 122

This course covers disease etiology and organ system involvement, including physical signs and symptoms, prognoses, and common complications and their management. Topics include basic microbiology, basic pharmacology, and principles of disease. Upon completion, students should be able to relate disease processes to etiology, physical signs and symptoms, prognosis, and common complications and their management. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HIT 280 Professional Issues

Prerequisites: HIT 214 and enrollment in HIT program.
Corequisites: None

This course provides a comprehensive discussion of topics common to the health information profession. Emphasis is on application of professional competencies, job search tools, and preparation for the certification examination. Upon completion, students should be able to demonstrate competence in entry-level domains and subdomains for health information technologies.
Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

HUMANITIES

HUM 110 Technology and Society

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test
Corequisite: None

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HUM 115 Critical Thinking

Prerequisites: ENG 090 and RED 090 or satisfactory score on placement
Corequisites: None

This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is 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. Students should be able to engage in rational discussions using reasons, arguments, exploration of consequences and motives, and crucial tests to explore the complexities of human relations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HUM 121 The Nature of America

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course provides an interdisciplinary survey of the American cultural, social, and political experience. Emphasis is on the multicultural character of American society, distinctive qualities of various regions, and the American political system. Upon completion, students should be able to analyze significant cultural, social, and political aspects of American life. Students should also be able to identify the frames of reference that shape the attitudes, beliefs, and behaviors of various cultural, social, and political groups. *This course has been approved to satisfy the Comprehensive*

Articulation Agreement for the general education core requirement in humanities/fine arts. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HUM 150 American Women's Studies

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course provides an inter-disciplinary study of the history, literature, and social roles of American women from Colonial times to the present. Emphasis is placed on women's roles as reflected in American language usage, education, law, the workplace, and mainstream culture. Upon completion, students should be able to identify and analyze the roles of women as reflected in various cultural forms. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

HUM 160 Introduction to Film

Prerequisite: ENG 111

Corequisite: None

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques as well as the social values reflected in film art. Upon completion, students should be able to analyze critically the elements covered in relation to selected films. Students should also be able to effectively analyze films within their respective thematic and historical contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

HUM 212 Humanities II

Prerequisites: All general education core courses

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 on the interconnectedness of

various aspects of cultures from early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*
Course Hours Per Week: Class, 3 Lab, 0. Semester Hours Credit, 3.

HYDRAULICS AND PNEUMATICS

HYD 110 Hydraulics/Pneumatics I

Prerequisite: MAT 060, RED 090, or satisfactory score on placement test

Corequisite: None

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

INTERNATIONAL BUSINESS

INT 110 International Business

Prerequisites: None

Corequisites: None

This course provides an overview of the environment, concepts, and basic differences involved in international business. Topics include forms of foreign involvement, international trade theory, governmental influences on trade and strategies, international organizations, multinational corporations, personnel management, and international marketing. Upon completion, students should be able to describe the foundation of international business. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

INDUSTRIAL SCIENCE

ISC 112 Industrial Safety

Prerequisites: None

Corequisites None

This course introduces the principles of industrial safety. Emphasis is on industrial safety and OSHA and environmental regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

ISC 115 Construction Safety

Prerequisites: None

Corequisites: None

This course introduces the basic concepts of construction site safety. Topics include ladders, lifting, lock-out/tag-out, personal protective devices, scaffolds and above/below ground work based on OSHA regulations. Upon completion, students should be able to demonstrate knowledge of applicable safety regulations and safely participate in construction projects. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

ISC 121 Environmental Health and Safety

Prerequisites: None

Corequisites: None

This course covers workplace environmental, health, and safety issues. Emphasis is on managing the implementation and enforcement of environmental health and safety regulations as well as on preventing accidents, injuries, and illnesses. Upon completion, students should be able to demonstrate an understanding of basic concepts of environmental, health, and safety issues. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ISC 131 Quality Management

Prerequisites: None

Corequisites: None

This course provides a study and analysis of the aspects and implications of quality management that lead to customer satisfaction through continuous quality improvement. Topics include Total Quality Management, ISO 9000, organizing for quality, supplier/vendor relationships, and the role of leadership in quality management. Upon completion, students should be able to demonstrate an understanding of quality management concepts and techniques. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ISC 210 Operations and Production Planning

Prerequisites: Completion of curriculum mathematics requirement

Corequisites: None

This course includes the fundamentals of operations and production planning, forecasting, and scheduling. Topics include demand management, production planning and control, scheduling, and budgeting. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques involved in operations and production planning. This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ISC 215 Job Analysis and Evaluation

Prerequisites: None

Corequisites: None

This course includes techniques necessary to gather facts about specific operations and responsibilities of the job, identify methods improvement, and facilitate performance evaluation. Emphasis is on what the job entails, including mental abilities, job skills, and physical requirements as well as job improvement and performance evaluation methods. Upon completion, students should be able to demonstrate an understanding of job analysis and evaluation methods. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ITALIAN

ITA 111 Elementary Italian I

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test

Corequisites: ITA 181 and ENG 090, or satisfactory score on placement test

This course introduces the fundamental elements of the Italian language within a cultural context. Emphasis is on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Italian as well as

demonstrate cultural awareness. This course must be taken with the accompanying lab. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ITA 112 Elementary Italian II

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test and ITA 111

Corequisites: ITA 182 and ENG 090, or satisfactory score on placement test

This course, a continuation of ITA 111, focuses on the fundamental elements of the Italian language within a cultural context. Emphasis is on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Italian and demonstrate further cultural awareness. This course must be taken with accompanying lab. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

ITA 181 Italian Lab 1

Prerequisites: None

Corequisite: ITA 111

This course provides an opportunity to enhance acquisition of the fundamental elements of the Italian language. Emphasis is 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 Italian and demonstrate cultural awareness. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

ITA 182 Italian Lab 2

Prerequisites: ITA 181

Corequisites: ITA 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the Italian language. Emphasis is on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Italian and demonstrate cultural awareness. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

ITA 211 Intermediate Italian I

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test, and ITA 112

Corequisites: ENG 090, or satisfactory score on placement test

This course provides a review and expansion of the essential skills of the Italian language. Emphasis is 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. Listening comprehension is reinforced with audio tapes and/or CD Roms outside the classroom. *This course has been approved to satisfy the Comprehensive Articulation Agreement general for the education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

LEGAL EDUCATION

LEX 110 Introduction to Paralegal Study

Prerequisites: None

Corequisites: None

This course introduces the paralegal profession and the legal system and an emphasis is on the role of professional and legal ethics. Topics include regulation, ethics, case analysis, legal reasoning, career opportunities, professional organizations, terminology and other related topics. Upon completion, students should be able to understand the role of a paralegal and identify the skills, knowledge and ethics required of paralegals. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

LEX 120 Legal Research/Writing I

Prerequisites: None

Corequisites: None

This course introduces the techniques of legal research and writing. Emphasis is on locating, analyzing, applying, and updating sources of law; effective legal writing, including proper citation; and the use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEX 121 Legal Research/Writing II

Prerequisites: LEX 120

Corequisites: None

This course covers advanced topics in legal research and writing. Topics include more complex legal issues and assignments involving preparation of legal memos, briefs, and other documents as well as the advanced use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEX 130 Civil Injuries

Prerequisites: None

Corequisites: None

This course covers traditional tort concepts and the evolving body of individual rights created by statute. Topics include intentional and non-intentional torts with emphasis on negligence, strict liability, civil rights, workplace and environmental liability, remedies, and damages. Upon completion, students should be able to recognize, explain, and evaluate elements of civil injuries and related defenses. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

LEX 140 Civil Litigation I

Prerequisites: None

Corequisites: None

This course introduces the structure of the legal system and the rules governing civil litigation. Topics include jurisdiction and state and federal rules of civil procedure and evidence. Upon completion, students should be able to assist an attorney in the pre-litigation matters and preparation of pleadings and motions. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

LEX 141 Civil Litigation II

Prerequisites: LEX 140

Corequisites: None

This course covers advanced topics in the civil litigation process. Topics include motions, discovery, and trial and appellate procedures. Upon completion, students should be able to assist an attorney in preparing and organizing documents for trial, settlement, and post-trial practice. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEX 150 Commercial Law I

Prerequisites: None

Corequisites: None

This course covers legally enforceable agreements, forms of organization, and selected portions of the Uniform Commercial Code. Topics include drafting and enforcement of contracts, leases, and related documents as well as selection and implementation of business organization forms, sales, and commercial papers. Upon completion, students should be able to apply the elements of a contract, prepare various business documents, and understand the role of commercial paper. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEX 160 Criminal Law and Procedure

Prerequisites: None

Corequisites: None

This course introduces substantive criminal law and procedural rights of the accused. Topics include elements of state/federal crimes, defenses, constitutional issues, pre-trial and trial process, and other related topics. Upon completion, students should be able to explain elements of specific crimes and assist an attorney in preparing a criminal case. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEX 180 Case Analysis and Reasoning

Prerequisites: None

Corequisites: LEX 120

This course covers the techniques of reading and applying legal opinions and the skills of case analysis. Emphasis is on the components of opinions and on types of legal writing. Upon completion, students should be able to read, analyze, and brief opinions as well as prepare legal memoranda, briefs, and other legal documents. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

LEX 210 Real Property I

Prerequisites: None

Corequisites: None

This course introduces the study of real property law. Topics include the distinction between real and personal property, various estates, mechanics of conveyance and encumbrance, recordation, special proceedings, and other related topics. Upon completion, students should be able to identify estates, forms of deeds, requirements for recording, and procedures to enforce rights to real property. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

LEX 211 Real Property II

Prerequisites: LEX 210

Corequisites: None

This course continues the study of real property law relating to title examination and preparation of closing documents. Topics include use of courthouse and other public records in title examination and preparation of documents required in real estate transactions and closings. Upon completion, students should be able to plot/draft a description; perform complete title examination; draft closing documents, including title insurance forms; and prepare disbursement reconciliation. Course Hours Per Week: Class, 1. Lab, 4. Semester Hours Credit, 3.

LEX 220 Corporate Law

Prerequisites: None

Corequisites: None

This course covers the legal aspects of forming, operating, and maintaining a business. Emphasis is on the business corporation with additional coverage of sole proprietorships and partnerships. Upon completion, students should be able to draft basic partnership and corporate documents and file these documents as required. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

LEX 240 Family Law

Prerequisites: None

Corequisites: None

This course covers laws governing domestic relations. Topics include marriage, separation, divorce, child custody, support, property division, adoption, domestic violence, and other related topics. Upon completion, students should be able to interview clients, gather information, and draft documents related to family law. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

LEX 250 Wills, Estates, and Trusts

Prerequisites: None

Corequisites: None

This course covers various types of wills, trusts, probate, estate administration, and intestacy. Topics include types of wills and execution requirements, caveats and dissents, intestate succession, inventories and accountings, distribution and settlement, and other related topics. Upon completion, students should be able to draft simple wills; prepare estate forms; understand administration of estates, including taxation; and explain terms regarding trusts. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

LEX 260 Bankruptcy and Collections

Prerequisites: None

Corequisites: None

This course provides an overview of the laws of bankruptcy and the rights of creditors and debtors. Topics include bankruptcy procedures and estate management, attachment, claim and delivery, repossession, foreclosure, collection, garnishment, and post-judgment collection procedure. Upon completion, students should be able to prepare and file bankruptcy forms, collection letters, statutory liens, and collection of judgments. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

LEX 270 Law Office Management/Technology

Prerequisite: None

Corequisite: None

This course provides an overview of law office management and organization. Topics include office forms, filing systems, billing/time keeping, computer systems, calendar systems, library administration, case management, office and personnel procedures, ethics, and technology. Upon completion, students should be able to establish and maintain various law office systems, monitor case progress, and supervise non-lawyer personnel. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

LEX 280 Ethics and Professionalism

Prerequisites: LEX 110, LEX 120, LEX 130, LEX 140, LEX 141, LEX 150,
LEX 210, LEX 220, LEX 240, LEX 250, LEX 285

Corequisite: None

This course reinforces legal ethics and the role of the paralegal in a professional work environment. Topics include a review of ethics, employment opportunities, and search techniques; paralegal certification; and other related topics. Upon completion, students should be able to understand the paralegal's role in the ethical practice of law. This course is designed as a capstone course during which the student reviews the various skills acquired during the past four terms in preparation for graduation and certification. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

LEX 285 Workers' Compensation Law

Prerequisites: None

Corequisites: None

This course covers the process of initiating and handling workers' compensation claims. Emphasis is on reviewing and drafting relevant Industrial Commission forms. Upon completion, students should be able to interview clients, gather information, and draft documents related to workers' compensation claims. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

LEX 286 Medical Evidence Analysis

Prerequisite: None

Corequisites: None

This course is designed to teach reading and analyzing medical records for legal evaluation of bodily injury and disability claims. Emphasis is on terminology; identifying, obtaining, and reviewing medical records; and study of the major systems of the human body. Upon completion, students should be able to compile, analyze, and organize medical documents to support or disprove injury claims. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

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. Course Hours Per Week: Class, 2. Lab, 12. Semester Hours Credit, 6.

MAC 112 Machining Technology II

Prerequisites: MAC 111

Corequisites: None

This course provides additional instruction and practice in the use of precision measuring tools, lathes, milling machines, and grinders. Emphasis is 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. Course Hours Per Week: Class, 2. Lab, 12. Semester Hours Credit, 6.

MAC 113 Machining Technology III

Prerequisites: MAC 112

Corequisites: None

This course provides an introduction to advanced and special machining operations. Emphasis is on working to specified tolerances with special and advanced setups. Upon completion, students should be able to produce a part to specifications. Course Hours Per Week: Class, 2. Lab, 12. Semester Hours Credit, 6.

MAC 121 Introduction to CNC

Prerequisites: None

Corequisites: MAC 111

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. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

MAC 122 CNC Turning

Prerequisites: None

Corequisites: MAC 111

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. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

MAC 124 CNC Milling

Prerequisites: MAC 121

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. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

MAC 131 Blueprint Reading/Mach I

Prerequisites: None

Corequisites: None

This course covers the basic principles of blueprint reading and sketching. Topics include multi-view drawings; interpretation of conventional lines; and dimensions, notes, and thread notations. Upon completion, students

should be able to interpret basic drawings, visualize parts, and make pictorial sketches. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

MAC 132 Blueprint Reading/Mach II

Prerequisites: MAC 131

Corequisites: None

This course introduces more complex industrial blueprints. Emphasis is placed on auxiliary views, section views, violations of true project, special views, applications of GD & T, and interpretation of complex parts. Upon completion, students should be able to read and interpret complex industrial blueprints. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

MAC 151 Machining Calculations

Prerequisites: MAT 101

Corequisites: None

This course introduces basic calculations as they relate to machining occupations. Emphasis is on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

MAC 222 Advanced CNC Turning

Prerequisites: MAC 122

Corequisites: None

This course covers advanced methods in setup and operation of CNC turning centers. Emphasis is 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. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

MAC 224 Advanced CNC Milling

Prerequisites: MAC 124

Corequisites: None

This course covers advanced methods in setup and operation of CNC machining centers. Emphasis is 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. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

New Course

MAC 226 CNC EDM Machining

Prerequisites: None

Corequisites: None

This course introduces the programming, setup, and operation of CNC electrical discharge machines. Topics include programming formats, control functions, program editing, production of parts, and inspection. Upon completion, students should be able to manufacture simple parts using CNC electrical discharge machines. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

MAC 248 Production Procedures

Prerequisites: MAC 111

Corequisites: None

This course covers product planning and control as well as scheduling and routing of operations. Topics include cost-effective production methods, dimensional and statistical quality control, and the tooling and machines required for production. Upon completion, students should be able to plan, set up, and produce cost-effective quality machined parts. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

MATHEMATICS

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by the college's placement test.

MAT 050 Basic Math Skills

Prerequisites: None

Corequisites: None

This course is designed to strengthen basic math skills. Topics include properties, rounding, estimating, comparing, converting, and computing whole numbers, fractions, and decimals. Upon completion, students should be able to perform basic computations and solve relevant mathematical problems. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

MAT 060 Essential Mathematics

Prerequisites: MAT 050 or satisfactory score on placement test

Corequisites: None

This course is a comprehensive study of mathematical skills which should provide a strong mathematical foundation to pursue further study. Topics include principles and applications of decimals, fractions, percents, ratio and proportion, order of operations, geometry, measurement, and elements of algebra and statistics. Upon completion, students should be able to perform basic computations and solve relevant, multi-step mathematical problems using technology where appropriate. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

MAT 070 Introductory Algebra

Prerequisite: MAT 060 or satisfactory score on placement test

Corequisite: RED 080

This course establishes a foundation in algebraic concepts and problem solving. Topics include signed numbers, exponents, order of operations, simplifying expressions, solving linear equations and inequalities, graphing, formulas, polynomials, factoring, and elements of geometry. Upon completion, students should be able to apply the concepts learned in problem solving using appropriate technology. Solving quadratic equations by factoring is also included. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

MAT 080 Intermediate Algebra

Prerequisite: MAT 070 or satisfactory score on placement test

Corequisite: RED 080

This course continues the study of algebraic concepts with emphasis on applications. Topics include factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; systems of equations; inequalities; graphing; functions; variations; complex numbers; and elements of geometry. Upon completion, students should be able to apply the concepts learned in problem solving using appropriate technology. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

MAT 090 Accelerated Algebra

Prerequisite: MAT 060 or satisfactory score on placement test and permission of the instructor or math discipline chair

Corequisite: RED 080

This course covers algebraic concepts with emphasis on applications. Topics include those covered in MAT 070 and MAT 080. Upon completion, students should be able to apply algebraic concepts in problem solving using appropriate technology. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

MAT 101 Applied Mathematics I

Prerequisite: MAT 060 or satisfactory score on placement test

Corequisite: None

This course is a comprehensive review of arithmetic with basic algebra 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. Also included are definitions and properties of angles, polygons, and circles; area; and right triangle trigonometry. This course is intended for certificate and diploma programs. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

MAT 110 Mathematical Measurement

Prerequisites: MAT 070

Corequisites: None

This course provides an activity-based approach to utilizing, interpreting, and communicating data in a variety of measurement systems. Topics include accuracy, precision, conversion, and estimation within metric, apothecary, and avoirdupois systems; ratio and proportion; measures of central tendency and dispersion; and charting of data. Upon completion, students should be able to apply proper techniques to gathering, recording, manipulating, analyzing, and communicating data. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

MAT 115 Mathematical Models

Prerequisites: MAT 070 or satisfactory score on placement test

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 graphs, probability, sampling techniques, scatter plots, and modeling. Upon completion, students should be able to solve practical problems; reason and communicate with mathematics; and work confidently, collaboratively, and independently. Applications may be drawn from, but are not limited to, the fields of business, public services, and various technologies. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

MAT 121 Algebra/Trigonometry I

Prerequisites: MAT 070 or satisfactory score on placement test

Corequisites: None

This course provides an integrated approach to technology and the skills required to manipulate, display, and interpret mathematical functions and formulas used in problem solving. Topics include simplification, evaluation, and solving of algebraic and radical functions; complex numbers; right triangle trigonometry; systems of equations; and the use of technology. Upon completion, students should be able to demonstrate an understanding of the use of mathematics and technology to solve problems as well as analyze and communicate results. A basic introduction to statistics is also included. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

MAT 122 Algebra/Trigonometry II

Prerequisites: MAT 121 or satisfactory score on placement test

Corequisites: None

This course extends the concepts covered in MAT 121 to include additional topics in algebra, function analysis, and trigonometry. Topics include exponential and logarithmic functions, translation and scaling of functions, Sine Law, Cosine Law, vectors, and statistics. Upon completion, students should be able to demonstrate an understanding of the use of technology to solve problems and to analyze and communicate results. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

MAT 140 Survey of Mathematics

Prerequisites: MAT 070 or satisfactory score on placement test

Corequisites: MAT 140A

This course provides an introduction in a non-technical setting to selected topics in mathematics. Topics include, but are not limited to, sets, logic, probability, statistics, matrices, mathematical systems, geometry, topology, mathematics of finance, and modeling. Upon completion, students should be able to understand a variety of mathematical applications, think logically, and be able to work collaboratively and independently. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAT 140A Survey of Mathematics Lab

Prerequisites: MAT 070 or satisfactory score on placement test

Corequisites: MAT 140

This course is a laboratory for MAT 140. Emphasis is on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

MAT 145 Analytical Math

Prerequisites: MAT 080 or MAT 122

Corequisites: None

This course is designed to develop problem solving and reasoning skills by the study of selected areas of mathematics. Topics include elementary and Boolean algebra, sets, logic, number theory, numeration systems, probability, statistics, and linear programming. Upon completion, students should be able to apply logic and other mathematical concepts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAT 151 Statistics I

Prerequisites: MAT 080 or MAT 090 or MAT 140 or satisfactory score on placement test

Corequisites: None

This course provides a project-based approach to the study of basic probability, descriptive and inferential statistics, and decision making. Emphasis is on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control, population parameter estimation, and hypothesis testing. Upon completion, students should be able to describe important characteristics of a set of data and draw inferences about a population from sample data. Students are able to compare two population means of both large and small groups as well as compare population proportions. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Students may not receive credit for both MAT 151 and MAT 155. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAT 155 Statistical Analysis

Prerequisites: MAT 080 or MAT 090 or satisfactory score on placement test

Corequisites: None

This course is an introduction to descriptive and inferential statistics. Topics include sampling, distributions, plotting data, central tendency, dispersion, Central Limit Theorem, confidence intervals, hypothesis testing, correlations, regressions, and multinomial experiments. Upon completion, students should be able to describe data and test inferences about populations using sample data. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Students may not receive credit for both MAT 151 and MAT 155. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAT 161 College Algebra

Prerequisites: MAT 080 or MAT 090 or satisfactory score on placement test

Corequisites: MAT 161A

This course provides an integrated technological approach to algebraic topics used in problem solving. Emphasis is on applications involving equations and inequalities; polynomial, rational, exponential, and logarithmic functions; and graphing and data analysis/modeling. Upon completion, students should be able to choose an appropriate model to fit a data set and use the model for analysis and prediction. This course is designed to satisfy the needs of the Associate in Arts student and does not satisfy the prerequisite for MAT 172. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics for the Associate in Arts Degree.* Students may not receive credit for both MAT 161 and MAT 171. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAT 161A College Algebra Lab

Prerequisites: MAT 080 or MAT 090 or satisfactory score on placement test

Corequisites: MAT 161

This course is a laboratory for MAT 161. Emphasis is 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 approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Students may not receive credit for both MAT 161A and MAT 171A. Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

MAT 171 Precalculus Algebra

Prerequisites: MAT 080 or MAT 090 or satisfactory score on placement test

Corequisites: MAT 171A

This is the first of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is on equations and inequalities; functions (linear, polynomial, and 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. Additional topics include, but are not limited to, exponential and logarithmic functions and their applications. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Students may not receive credit for both MAT 161 and MAT 171. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAT 171A Precalculus Algebra Lab

Prerequisites: MAT 080 or MAT 090 or satisfactory score on placement test

Corequisites: MAT 171

This course is a laboratory for MAT 171. Emphasis is on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Students may not receive credit for both MAT 161A and MAT 171A. Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

MAT 172 Precalculus Trigonometry

Prerequisites: MAT 171 or satisfactory score on placement test

Corequisites: MAT 172A

This is the second of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is on properties and applications of transcendental functions and their graphs, right and oblique triangle trigonometry, conic sections, vectors, and polar coordinates. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* MAT 161 does not satisfy the prerequisite for MAT 172. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAT 172A Precalculus Trigonometry Lab

Prerequisite: MAT 171

Corequisite: MAT 172

This course is a laboratory for MAT 172. Emphasis is 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 pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

MAT 263 Brief Calculus

Prerequisites: MAT 171 or satisfactory score on placement test

Corequisites: MAT 263A

This course introduces concepts of differentiation and integration as well as 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 an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Students may not receive credit for both MAT 263 and MAT 271. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAT 263A Brief Calculus Lab

Prerequisites: MAT 171 or satisfactory score on placement test

Corequisites: MAT 263

This course is a laboratory for MAT 263. Emphasis is 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.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1

MAT 271 Calculus I

Prerequisites: MAT 172 or satisfactory score on placement test

Corequisites: None

This course covers in depth the differential calculus portion of a three-course calculus sequence. Topics include limits, continuity, derivatives, and integrals of algebraic and transcendental functions of one variable, with applications. Upon completion, students should be able to apply differentiation and integration techniques to algebraic and transcendental functions. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Students may not receive credit for both MAT 263 and MAT 271. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

MAT 272 Calculus II

Prerequisites: MAT 271

Corequisites: None

This course provides a rigorous treatment of integration and is the second calculus course in a three-course sequence. Topics include applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to use integration and approximation techniques to solve application problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

MAT 273 Calculus III

Prerequisites: MAT 272

Corequisites: None

This course covers the calculus of several variables and is the third calculus course in a three-course sequence. Topics include functions of several variables, partial derivatives, multiple integrals, solid analytical geometry, vector-valued functions, and line and surface integrals. Upon completion, students should be able to solve problems involving vectors and functions of several variables. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

MAT 285 Differential Equations

Prerequisites: MAT 272

Corequisites: None

This course provides an introduction to ordinary differential equations with an emphasis on applications. Topics include first-order, linear higher-order, and systems of differential equations; numerical methods; series solutions; eigenvalues and eigenvectors; Laplace transforms; and Fourier series. Upon completion, students should be able to use differential equations to model physical phenomena, solve the equations, and use the solutions to analyze the phenomena. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MECHANICAL**MEC 111 Machine Processes I**

Prerequisite: None

Corequisite: None

This course introduces shop safety, hand tools, machine processes, measuring instruments, and the operation of machine shop equipment. Topics include use and care of tools, safety, measuring tools, and the basic setup and operation of common machine tools. Upon completion, students should be able to safely machine simple parts to specified tolerances. Course Hours Per Week: Class, 1. Lab, 4. Semester Hours Credit, 3.

MEDICAL ASSISTING**MED 110 Orientation to Med Assist**

Prerequisites: Acceptance into Medical Assisting diploma or certificate

Corequisites: None

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting. Course Hours Per Week: Class, 1; Lab, 0; Semester Hours Credit, 1.

MED 112 Ori to Clinic Setting I

Prerequisites: Acceptance into Medical Assisting Diploma

Corequisites: None

This course provides an early opportunity to observe and/or perform in the medical setting. Emphasis is on medical assisting procedures including appointment scheduling, filing, greeting patients, telephone techniques, billing, collections, medical records, and related medical procedures. Upon completion, students should be able to identify administrative and clinical procedures in the medical environment. Course Hours Per Week: Class, 0; Lab, 0; Clinical, 3; Semester Hours Credit, 1.

MED 114 Prof Interac in Heal Care

Prerequisites: Acceptance into Medical Assisting diploma or certificate

Corequisites: None

This course is designed to identify various patient behaviors encountered in the medical setting. Emphasis is on stressors related to illness, cultural influences, death and dying, and needs specific to patients. Upon

completion, students should be able to utilize appropriate methods of verbal and nonverbal communication with empathy and impartiality. Course Hours Per Week: Class, 1; Lab, 0; Clinical, 0; Semester Hours Credit, 1.

MED 118 Medical Law and Ethics

Prerequisites: MED 110, MED 121

Corequisites: None

This course covers legal relationships of physicians and patients, contractual agreements, professional liability, malpractice, medical practice acts, informed consent, and bioethical issues. Emphasis is on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services. Upon completion, students should be able to meet the legal and ethical responsibilities of a multi-skilled health professional. Course Hours Per Week: Class, 2; Lab, 0; Clinical, 0; Semester Hours Credit, 2.

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 treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

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 treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MED 130 Admin Office Proc I

Prerequisites: Acceptance into Medical Assisting diploma or certificate

Corequisites: None

This course introduces medical office administrative procedures. Topics include appointment processing, written and oral communications, medical records, patient orientation, and safety. Upon completion, students should be able to perform basic administrative skills within the medical environment. Class, 1; Lab, 2; Clinical, 0; Semester Hours Credit, 2.

MED 131 Admin Office Proc II

Prerequisites: MED 130

Corequisites: None

This course provides medical office procedures in both economic and management skills. Topics include physical plant maintenance, equipment and supplies, liability coverage, medical economics, and introductory insurance procedures. Upon completion, students should be able to manage the economics of the medical office and supervise personnel. Class, 1; Lab, 2; Clinical, 0; Semester Hours Credit, 2.

MED 140 **Exam Room Procedures I**
Prerequisites: MED 110, MED 121, MAT 110
Corequisites: MED 122

This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures. Class, 3; Lab, 4; Clinical, 0; Semester Hours Credit, 5.

MED 150 **Laboratory Procedures I**
Prerequisites: MED 110, MED 121
Corequisites: MED 122

This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/skills based on course topics. Class, 3; Lab, 4; Clinical, 0; Semester Hours Credit, 5.

MED 232 **Medical Insurance Coding**
Prerequisites: MED 110, MED 121
Corequisites: MED 122

This course is designed to develop coding skills. Emphasis is on advanced diagnostic and procedural coding in the outpatient facility. Upon completion, students should be able to demonstrate proficiency in coding for reimbursement. Class, 1; Lab, 3; Clinical, 0; Semester Hours Credit, 2.

MED 260 **MED Clinical Externship**
Prerequisites: All previous courses in Medical Assisting diploma
Corequisites: MED 262

This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional. Class, 0; Lab, 0; Clinical, 15; Semester Hours Credit, 5.

MED 262 **Clinical Perspectives**
Prerequisites: None
Corequisites: MED 260

This course is designed to explore personal and occupational responsibilities of the practicing medical assistant. Emphasis is on problems encountered during externships and development of problem-solving skills. Upon completion, students should be able to demonstrate courteous and diplomatic behavior when solving problems in the medical facility. Class, 1; Lab, 0; Clinical, 0; Semester Hours Credit, 1.

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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

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 on sales techniques involved in various types of selling situations. Upon completion, students should be able to demonstrate an understanding of the techniques covered. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MAINTENANCE

MNT 110 Intro to Maintenance Procedures

Prerequisite: MAT 060, RED 070, or satisfactory score on placement test
Corequisite: None

This course covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures. Upon completion, students should be able to demonstrate knowledge of accepted maintenance procedures and practices according to current industry standards. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

MNT 230 Pumps & Piping Systems

Prerequisites: MAT 060, RED 090, or satisfactory score on placement test

Corequisites: None

This course covers pump installation and maintenance and related valves and piping systems. Topics include various types of pump systems and their associated valves, piping requirements, and other related topics. Upon completion, students should be able to select and install pump and piping systems and demonstrate proper maintenance and troubleshooting procedures. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

MNT 240 Industrial Equipment Troubleshooting

Prerequisite: MAT 060, RED 070, or satisfactory score on placement test; AHR 110 or AHR 112

Corequisite: None

This course covers the various service procedures, tools, instruments, and equipment necessary to analyze and repair typical industrial equipment. Emphasis is on electro-mechanical and fluid power equipment troubleshooting, calibration, and repair, including common techniques and procedures. Upon completion, students should be able to troubleshoot and repair industrial equipment. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

MUSIC

MUS 110 Music Appreciation

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course is a basic survey of the music of the Western world. Emphasis is on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

MUS 113 American Music

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course introduces various musical styles, influences, and composers of the United States from pre-Colonial times to the present. Emphasis is on the broad variety of music particular to American culture. Upon completion, students should be able to demonstrate skills in basic listening and understanding of American music. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

NETWORKING TECHNOLOGY

NET 125 Networking Basics

Prerequisites: None

Corequisites: None

This course introduces the networking field. Emphasis is 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. Course Hours Per Week: Class, 1. Lab, 4. Semester Hours Credit, 3.

NET 126 Routing Basics

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 on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs. Course Hours Per Week: Class, 1. Lab, 4. Semester Hours Credit, 3

NET 175 Wireless Technology

Prerequisites: NET 125

Corequisites: None

This course introduces the student to wireless technology and interoperability with different communication protocols. Topics include Wireless Application Protocol (WAP), Wireless Mark-up language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3

NET 225 Routing & Switching I

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 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. Class, 1. Lab, 4. Semester Hours Credit, 3.

NET 226 Routing & Switching II

Prerequisites: NET 225

Corequisites: None

This course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, and describe the Spanning Tree protocol. Course Hours Per Week: Class, 1; Lab, 4; Semester Hours Credit, 3.

NET 289 Networking Project

Prerequisites: None

Corequisites: NET 226

This course provides an opportunity to complete a significant networking project from the design phase through implementation with minimal instructor support. Emphasis is 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. Course Hours Per Week: Class, 1; Lab, 4; Semester Hours Credit, 3.

Network Operating Systems

NOS 110 Operating System Concepts

Prerequisites: None

Corequisites: CIS 110

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is 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. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

NOS 120 Linux/UNIX Single User

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

NOS 220 Linux/UNIX Admin I

Prerequisites: NOS 120

Corequisites: None

This course introduces the Linux file system, group administration, and system hardware controls. Topics include installation, creation and maintaining file systems, NIS client and DHCP client configuration, NFS, SMB/Samba, Configure X, Gnome, KDE, basic memory, processes, and security. Upon completion, students should be able to perform system administration tasks including installation, configuring and attaching a new Linux workstation to an existing network. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

NOS 221 Linux/UNIX Admin II

Prerequisites: NOS 220

Corequisites: None

This course includes skill-building in configuring common network services and security administration using Linux. Topics include server-side setup, configuration, basic administration of common networking services, and security administration using Linux. Upon completion, students should be able to setup a Linux server and configure common network services including security requirements. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

NOS 222 Linux/UNIX Admin III

Prerequisites: NOS 221

Corequisites: None

This course includes technical topics in preparing an enterprise Linux system for common uses. Topics include advanced study of hardware, installation, boot process, file system administration, software administration, user administration, system administration, kernel services, configuration, securing services, and troubleshooting. Upon completion, students should be able to administer an enterprise Linux system. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

NOS 230 Windows Admin I

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

NOS 231 Windows Admin II

Prerequisites: NOS 230

Corequisites: None

This course covers implementing, managing, and maintaining a Windows Server network infrastructure. Topics include implementing, managing, and maintaining IP addressing, name resolution, network security, routing and remote access, and managing a network infrastructure. Upon completion, students should be able to manage and maintain a Windows Server environment. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

NOS 232 Windows Admin III

Prerequisites: NOS 231

Corequisites: None

This course covers implementing and administering security in a Windows Server network. Topics include implementing, managing, and trouble shooting security policies, patch management infrastructure, security for network communications, authentication, authorization, and PKI. Upon completion, students should be able to implement, manage, and maintain a Windows Server network infrastructure. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

NURSING

NUR 101 Practical Nursing I

Prerequisites: **BIO 163 and PSY 110**; Enrollment in the Practical Nursing program

Corequisites:

This course introduces concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is on the nursing process; legal, ethical, and professional issues; wellness and illness patterns; and basic nursing skills. Upon completion, students should be able to demonstrate beginning understanding of nursing process to promote, maintain, and restore optimum health for diverse clients throughout the life span. Experiences in the nursing laboratory and in health care agencies provide students the opportunity to develop nursing skills by providing direct client care. This is a diploma-level course. Course Hours Per Week: Class, 7. Lab, 6. Clinical, 6. Semester Hours Credit, 11.

NUR 102 Practical Nursing II

Prerequisites: NUR 101, BIO 163, and PSY 110

Corequisites: None

This course includes more advanced concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is on the nursing process; delegation; cost effectiveness; legal, ethical, and professional issues;

and wellness and illness patterns. Upon completion, students should be able to begin participating in the nursing process to promote, maintain, and restore optimum health for diverse clients throughout the life span. Correlation of theory to clinical applications is provided on medical, surgical, mother-baby units, extended care, and rehabilitation health facilities. This is a diploma-level course. Course Hours Per Week: Class, 8. Clinical, 12. Semester Hours Credit, 12.

NUR 103 Practical Nursing III

Prerequisites: **NUR 102, ENG 111**

Corequisites:

This course focuses on use of nursing and related concepts by practical nurses as providers of care as well as members of the nursing discipline in collaboration with health team members. Emphasis is on the nursing process, wellness and 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, and restore optimum health for diverse clients throughout the life span. The clinical experience provides opportunities for beginning transition from student to practitioner on medical/surgical units and in pediatric facilities. This is a diploma-level course. Course Hours Per Week: Class, 6. Clinical, 12. Semester Hours Credit, 10

NUR 110 Nursing I

Prerequisites: **ACA 111, BIO 168, BIO 169, ENG 111, ENG 112 or ENG 113, PSY 150, SOC 210**

Admission to the Associate Degree Nursing program; listing as a Nursing Assistant I in North Carolina

Corequisites:

This course introduces concepts which are basic to beginning nursing practice. Emphasis is on introducing the nurse's role as provider of care, manager of care, and member of the nursing discipline. Upon completion, students should be able to demonstrate beginning competence in caring for individuals with common alterations in health. Theoretical emphasis is on the nursing process and the concepts of basic human needs, communication, as well as teaching and learning principles. Course Hours Per Week: Class, 5. Lab, 3. Clinical, 6. Semester Hours Credit, 8.

NUR 120 Nursing II

Prerequisite: **NUR 110, BIO 275**

Corequisites: **PSY 281, NUR 186**

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is on developing the nurse's role as provider of care, manager of care, and member of the nursing discipline. Upon completion, students should be able to participate in the delivery of nursing care for individuals with common alterations in health. Theoretical concentration involves utilizing the nursing process to provide therapeutic communication and nursing care for clients with selected medical/surgical disorders. Course Hours Per Week: Class, 5.0. Lab, 3.0 Clinical, 6. Semester Hours Credit, 8.

NUR 120B Nursing II

Prerequisites: **NUR 189 and licensed as practical nurse in North Carolina**

Corequisites: **BIO 169, NUR 186, and PSY 281**

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is on developing the nurse's role as provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to participate in the delivery of nursing care for individuals with common alterations in health. Theoretical foci emphasize utilizing the nursing process to provide nursing care for clients with alterations in oxygenation, fluid, and electrolytes. Course Hours Per Week: Class, 2.5. Lab, 1.5. Clinical, 3. Semester Hours Credit, 4.

NUR 130 Nursing III
Prerequisites: NUR 120, PSY 281
Corequisites: **Humanities elective**

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is on expanding the nurse's role as provider of care, manager of care, and member of the nursing discipline. Upon completion, students should be able to deliver nursing care to individuals with common alterations in health. Theoretical concentration involves utilizing the nursing process to provide therapeutic communication and nursing care for clients with mental health and medical/surgical disorders. Course Hours Per Week: Class, 4. Lab, 3. Clinical, 6. Semester Hours Credit, 7.

NUR 186 Clinical Supplement
Prerequisite: NUR 110
Corequisite: NUR 120 or NUR 120B, PSY 281, and BIO 169

This course is designed to be offered as a corequisite to any core NUR course. Emphasis is on applying the nursing process in a clinical setting. Upon completion, students should be able to demonstrate delivery of nursing care at the level required for the core NUR course. Course Hours Per Week: Clinical, 3. Semester Hours Credit, 1.

NUR 189 Nursing Transition
Prerequisites: BIO 168 and PSY 150 and licensed as practical nurse in North Carolina
Corequisite: 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 Associate Degree Nursing program at the level of the generic student. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

NUR 210A Nursing IV
Prerequisites: NUR 130
Corequisites: BIO 275 and ENG 111

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is on using collaboration as a provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to modify nursing care for individuals with common alterations in health. Theoretical foci emphasize the nursing process to provide nursing care for childbearing families. Course Hours Per Week: Class, 2.5. Lab, 1.5. Clinical, 6. Semester Hours Credit, 5.

NUR 210B Nursing IV
Prerequisites: NUR 130
Corequisites: BIO 275 and ENG 111

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is on using collaboration as a provider of care, manager of care, and member of the nursing discipline.

Upon completion, students should be able to modify nursing care for individuals with common alterations in health. Theoretical foci emphasize the nursing process to provide nursing care for clients with alterations in movement, cognition, and sensation. Course Hours Per Week: Class, 2.5. Lab, 1.5. Clinical, 6. Semester Hours Credit, 5.

NUR 220 Nursing V

Prerequisites: NUR 210A and NUR 210B

Corequisites: ENG 112 and humanities elective

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is on the nurse's role as an independent provider and manager of care for a group of individuals and as a member of a multidisciplinary team. Upon completion, students should be able to provide comprehensive nursing care to a group of individuals with common complex health alterations. Theoretical concentration includes principles of leadership, management, and delegation while developing skills necessary for transition into professional practice. Course Hours Per Week: Class, 4. Lab, 3. Clinical, 15. Semester Hours Credit, 10.

OPERATIONS MANAGEMENT

OMT 112 Materials Management

Prerequisites: None

Corequisites: None

This course covers the basic principles of materials management. Emphasis is on the planning, procurement, movement, and storage of materials. Upon completion, students should be able to demonstrate an understanding of the concepts and techniques related to materials management. This course is a unique concentration requirement of the Operations Management concentration in the Business Administration program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OMT 260 Issues in Operations Management

Prerequisites: ISC 121, ISC 131, ISC 210 and OMT 112

Corequisites: None

This course presents a variety of topics that highlight contemporary problems and issues related to operations management. Emphasis is 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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OPTICIANRY

OPH 101 Math for Opticians

Prerequisites: MAT 070 or satisfactory score on placement test

Enrollment in the Optical Apprentice Certificate program

Corequisites: None

This course covers the arithmetic, algebra, geometry, and trigonometry necessary to evaluate optical formulas. Topics include signed arithmetic, evaluation and solution of equations, use of the calculator, and basic trigonometric functions. Upon completion, students should be able to evaluate formulas as used in opticianry

courses. This course is intended for a certificate program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OPH 102 Ophthalmic Lab Concepts

Prerequisites: OPH 141 and enrollment in Optical Apprentice Certificate program.

Corequisites: None

This course introduces the operations of the ophthalmic laboratory. Emphasis is on surfacing and finishing formulas; materials, procedures, and equipment used to fabricate glasses; and ANSI, EPA, and OSHA requirements. Upon completion, students should be able to perform laboratory-related calculations, describe safety and environmental regulations, and identify materials and procedures used in ophthalmic laboratories. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

OPH 111 Ophthalmic Lab I

Prerequisites: OPH 141

Enrollment in the Opticianry program

Corequisites: None

This course introduces optical laboratory practices and procedures. Emphasis is on safety, OSHA and EPA requirements, equipment and instrumentation, and lens fabrication to ANSI standards. Upon completion, students should be able to duplicate lenses, use basic formulas, and identify materials and procedures used to safely fabricate prescription lenses to specifications. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

OPH 112 Ophthalmic Lab II

Prerequisites: OPH 111

Corequisites: None

This course continues the study of optical laboratory procedures introduced in OPH 111. Emphasis is on prescription interpretation, focimetry, and finishing techniques. Upon completion, students should be able to duplicate lenses, use intermediate formulas, and identify materials and procedures used to safely fabricate prescription eyewear to specifications. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

OPH 121 Anatomy and Physiology - Eye

Prerequisites: ENG 090 AND RED 090 or satisfactory score on placement test

Enrollment in the Opticianry or Optical Apprentice Certificate programs

Corequisites: None

This course covers the anatomical and physiological functions of the eye and its associated structures. Emphasis is on normal vision and common disorders of the visual system. Upon completion, students should be able to describe the visual process as well as label and describe the function of each part of the eye. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OPH 131 Optical Dispensing I

Prerequisites: Enrollment in Opticianry or Optical Apprentice Certificate program

MAT 070 or satisfactory score on placement test

ENG 090 and RED 090 or satisfactory score on placement test

Corequisites: None

This course introduces the historical and modern dispensing practices and the laws governing opticianry. Topics include basic eyeglass choices, measurements, dispensing, adjustments, and record keeping. Upon completion, students should be able to evaluate patient needs and wearing success. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OPH 132 Optical Dispensing II

Prerequisites: OPH 131 and OPH 141

Corequisites: None

This course continues the study of optical dispensing begun in OPH 131. Emphasis is on advanced dispensing skills. Upon completion, students should be able to design and dispense appropriate eyewear for a variety of patients. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

OPH 141 Optical Theory I

Prerequisites: Enrollment in Opticianry or Optical Apprentice Certificate programs

MAT 070 or satisfactory score on placement test, or OPH 101

Corequisites: MAT 121

This course introduces the principles of optics and ophthalmic lens design. Topics include basic theory and basic optical formulas. Upon completion, students should be able to use the metric system, define basic optical terms, and perform basic optical calculations. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OPH 142 Optical Theory II

Prerequisites: OPH 141

Corequisites: None

This course continues the study of optical theory begun in OPH 141. Topics include intermediate and advanced theory and formulas. Upon completion, students should be able to perform intermediate and advanced optical calculations. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OPH 215 Laboratory Proficiency

Prerequisites: Final semester of program

Corequisites: OPH 243, OPH 262

This course provides preparation for the NC State Board of Opticians Examination. Emphasis is on speed and accuracy in all items on the competence list. Upon completion, students should be able to safely and accurately demonstrate proficiency in all items on the laboratory competence list. Course Hours Per Week: Lab, 6. Semester Hours Credit, 2.

OPH 222 Optical Business Management

Prerequisites: Enrollment in Opticianry program

Corequisites: None

This course covers basic optical business management and current eyecare trends and practices. Topics include professional ethics, inventory, accounting, personnel, insurance, advertising, litigation, equipment, and future trends. Upon completion, students should be able to apply basic principles of management to the optical business setting. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OPH 233 Advanced Optical Procedures

Prerequisites: OPH 131, OPH 132, OPH 141, and OPH 142

Corequisites: None

This course introduces special optical procedures. Topics include advanced optical assessments and calculations. Upon completion, students should be able to describe appropriate patient care. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

OPH 243 Technical Proficiency

Prerequisites: Final semester of program, and OPH 142, OPH 233

Corequisites: OPH 215 and OPH 262

The course provides preparation for the NC State Board of Opticians Examination. Emphasis is on topics relevant to written portions of this examination. Upon completion, students should be able to pass each part of a capstone examination with a **grade of 77** or better. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OPH 251 Optical Internship I

Prerequisites: OPH 132, OPH 141, and OPH 142

Corequisites: None

This course provides practical experience under the direct supervision of an opticianry instructor. Emphasis is on communication and dispensing skills. Upon completion, students should be able to demonstrate competence in all course objectives. Course Hours Per Week: Clinical, 3. Semester Hours Credit, 1.

OPH 260 Basic Contact Lens Concepts

Prerequisites: OPH 121 and OPH 141

Corequisites: None

This course introduces the theory of contact lens fitting. Emphasis is on rigid and soft contact design and fitting concepts. Upon completion, students should be able to describe basic contact lens fitting concepts. Course Hours Per Week: Classroom, 3. Semester Hours Credit, 3.

OPH 261 Contact Lenses I

Prerequisites: OPH 121 and OPH 142

Corequisites: None

This course introduces rigid contact lens fitting. Emphasis is on clinical applications, patient selection, design parameters, instrumentation, and corneal physiology. Upon completion, students should be able to describe basic patient evaluation and fitting procedures for rigid and soft lenses, recognize problems, and determine effective and appropriate solutions. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

OPH 262 Contact Lenses II

Prerequisites: OPH 261

Corequisites: OPH 215 and OPH 243

This course continues the study of contact lens fitting. Emphasis is on soft contact lens advanced fitting design and techniques. Upon completion, students should be able to demonstrate the competence required for the National Contact Lens Examination and the NC State Board of Opticians Examination. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

OPH 282 Optical Externship I

Prerequisites: OPH 112, OPH 142, and OPH 233

Corequisites: None

This course provides practical experience in assigned businesses, with emphasis on observation and practical application. Emphasis is on working conditions in different production settings and on time demands. Upon completion, students should be able to complete eyewear in a safe and timely manner to proper specifications and in collaboration with other employees. Course Hours Per Week: Clinical, 6. Semester Hours Credit, 2.

OFFICE SYSTEMS TECHNOLOGY

OST 131 Keyboarding

Prerequisites: None

Corequisites: None

This course covers basic keyboarding skills. Emphasis is on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at acceptable speed and accuracy using the touch system. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 132 Keyboard Skill Building

Prerequisites: OST 131

Corequisites: None

This course provides accuracy- and speed-building drills. Emphasis is on diagnostic tests to identify accuracy and speed deficiencies followed by corrective drills. Upon completion, students should be able to keyboard rhythmically with greater accuracy and speed. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 134 Text Entry and Formatting

Prerequisites: None

Corequisites: None

This course is designed to provide the skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce mailable documents and key timed writings at speeds commensurate with employability. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

OST 135 Advanced Text Entry and Format

Prerequisites: OST 134

Corequisites: None

This course is designed to incorporate computer application skills in the generation of office documents. Emphasis is on the production of letters, manuscripts, business forms, tabulation, legal documents, and newsletters. Upon completion, students should be able to make independent decisions regarding planning, style, and method of presentation. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

OST 136 Word Processing

Prerequisites: None

Corequisites: None

This course introduces word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work

effectively in a computerized word processing environment. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 148 Medical Coding Billing and Insurance

Prerequisites: None

Corequisites: None

This course introduces CPT and ICD coding as they apply to medical insurance and billing. Emphasis is on accuracy in coding, forms preparation, and posting. Upon completion, students should be able to describe the steps of the total billing cycle and explain the importance of accuracy. This course is a unique concentration requirement of the Medical Office Systems Technology concentration in the Office Systems Technology program. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

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 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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OST 164 Text Editing Applications

Prerequisites: None

Corequisites: None

This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

OST 181 Introduction to Office Systems

Prerequisites: OST 131

Corequisites: None

This course introduces the skills and abilities needed in today's office. Topics include effectively interacting with co-workers and the public, processing simple financial and informational documents, and performing functions typical in today's offices. Upon completion, students should be able to display skills and decision-making abilities essential for functioning in the total office context. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

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. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 223 Machine Transcription I

Prerequisites: OST 134 and OST 136 and OST 164

Corequisites: None

This course covers the use of transcribing machines to produce mailable documents. Emphasis is on appropriate formatting, advanced text editing skills, and transcription techniques. Upon completion, students should be able to transcribe documents into mailable copy. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 224 Machine Transcription II

Prerequisites: OST 223

Corequisites: None

This course provides advanced transcription skills. Emphasis is on specialized transcription features. Upon completion, students should be able to transcribe complex business documents into mailable copy with minimal assistance. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 236 Advanced Word/Information Processing

Prerequisites: OST 135 or OST 136

Corequisites: None

This course develops proficiency in the utilization of advanced word/information processing functions. Topics include tables, graphics, macros, sorting, document assembly, merging, and newspaper and brochure columns. Upon completion, students should be able to produce a variety of complex business documents. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

OST 241 Medical Office Transcription I

Prerequisites: MED 121

Corequisites: None

This course introduces machine transcription techniques as applied to medical documents. Emphasis is on accurate transcription, proofreading, and use of reference materials as well as vocabulary building. Upon completion, students should be able to prepare accurate and usable transcripts of voice recordings in the covered specialties. This course is a unique concentration requirement of the Medical Office Systems Technology concentration in the Office Systems Technology program. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 242 Medical Office Transcription II

Prerequisites: OST 241

Corequisites: None

This course continues building machine transcription techniques as applied to medical documents. Emphasis is on accurate transcription, proofreading, and use of reference materials as well as continued proofreading/editing skills and vocabulary building. Upon completion, students should be able to perform competently in preparing accurate and usable transcripts of voice recordings in the covered specialties. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 243 Medical Office Simulation

Prerequisites: OST 131 or OST 148

Corequisites: None

This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, storing and retrieving information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

OST 247 CPT Coding in the Med Off

Prerequisites: MED 122

Corequisites: None

This course provides in-depth coverage of procedural coding. Emphasis is on CPT and HCPCS rules for Medicare billing. Upon completion, students should be able to properly code procedures and services performed by physicians in ambulatory settings. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 284 Emerging Technologies

Prerequisites: None

Corequisites: None

This course provides opportunities to explore emerging technologies. Emphasis is on identifying, researching, and presenting current technological topics for class consideration and discussion. Upon completion, students should be able to understand the importance of keeping abreast of technological changes that affect the office professional. Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

OST 289 Office Systems Management

Prerequisites: OST 164 and either OST 134 or OST 136

Corequisites: None

This course provides a capstone course for the office professional. Topics include administrative office procedures, imaging, communication techniques, ergonomics, and equipment utilization. Upon completion, students should be able to function proficiently in a changing office environment. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

OCCUPATIONAL THERAPY ASSISTANT

OTA 110 Fundamentals of OT

Prerequisites: Enrollment in the Occupational Therapy Assistant program

Corequisites: BIO 168

This course introduces occupational therapy theory, practice, philosophy, and principles. Emphasis is on providing a basic understanding of the profession as well as beginning to develop interaction and observation skills. Upon completion, students should be able to demonstrate basic understanding of occupational therapy practice options, uniform terminology, activity analysis, principles, process, philosophies, and frames of reference. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

OTA 120 OT Media I

Prerequisites: Enrollment in the Occupational Therapy Assistant program

Corequisites: OTA 110

This course provides training in recognizing the therapeutic value of and in using a wide variety of leisure, self care, and work activities. Topics include crafts, games, personal care and work activities as well as teaching and learning methods and styles. Upon completion, students should be able to design, select, and complete/perform leisure, self

care, and work activities that would be therapeutic for designated client populations. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

OTA 130 Assessment Skills

Prerequisites: **BIO 168, OTA 120, OTA 140**

Corequisites: OTA 110

This course provides training in appropriate and accurate assessment and intervention skills related to sensory, movement, perceptual/cognitive, affective systems, and ADL skills. Topics include kinesiology, body mechanics, sensory, ROM, MMT, cognitive/perceptual, psychosocial, self-care, and work-related assessments; treatment approaches; and basics of group structure and dynamics. Upon completion, students should be able to administer various assessment tools and appropriate treatment approaches regarding sensation, movement, perception/cognition, affect, self-care, and work-related skills. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

OTA 140 Professional Skills I

Prerequisites: Enrollment in the Occupational Therapy Assistant program

Corequisites: OTA 110

This course introduces the roles and responsibilities of Certified Occupational Therapy Assistants and Occupational Therapists Registered in occupational therapy practice and facilitates development of observation, documentation, and therapeutic use of self skills. Topics include Code of Ethics, roles and responsibilities, credentialing and licensing, documentation, therapeutic use of self and professional identity/behavior, supervisory relationships, time management, and observation skills. Upon completion, students should be able to demonstrate ethical behavior; discriminate between role and responsibilities of Certified Occupational Therapy Assistants and Occupational Therapists Registered; and participate in acceptable supervision, documentation, and scheduling. Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

OTA 150 Life Span Skills I

Prerequisites: BIO 169, **OTA 130**

Corequisites: PSY 241, **OTA 163**, OTA 170

This course is designed to use knowledge gained from PSY 241 as it applies to occupational therapy practice from birth to adolescence. Topics include review of normal growth and development, identification and discussion of common disabilities and delays, assessment, treatment planning, and intervention approaches used with these populations. Upon completion, students should be able to identify and use assessments, screenings, and interventions for infants through adolescents for selected disabilities and developmental delays in various settings. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

OTA 161 Fieldwork I-Placement 1

Prerequisites: OTA 120, OTA 140

Corequisites: OTA 130, **OTA 170**

This course provides introductory-level clinical training opportunities. Emphasis is on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance and direction of fieldwork supervisors. Course Hours Per Week: Clinical, 3. Semester Hours Credit, 1.

OTA 162 Fieldwork I-Placement 2

Prerequisites: OTA 120, OTA 140

Corequisites: OTA 130, **OTA 180**

This course provides introductory-level clinical training opportunities. Emphasis is on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance and direction of fieldwork supervisors. Course Hours Per Week: Clinical, 1. Semester Hours Credit, 1.

OTA 163 Fieldwork I-Placement 3

Prerequisites: OTA 120, OTA 140

Corequisites: OTA 130, **OTA 150**

This course provides introductory-level clinical training opportunities. Emphasis is on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance and direction of fieldwork supervisors. Course Hours Per Week: Clinical, 3. Semester Hours Credit, 1.

OTA 164 Fieldwork I-Placement 4

Prerequisites: OTA 120, OTA 140

Corequisites: OTA 130, **OTA 250**

This course provides introductory-level clinical training opportunities. Emphasis is on observational and basic interactional skills in a setting with a culturally diverse client population. Upon completion, students should be able to use observational and interactional skills to relate effectively with clients under the guidance and direction of fieldwork supervisors. Course Hours Per Week: Clinical, 3. Semester Hours Credit, 1.

OTA 170 Physical DysfunctionPrerequisites: BIO 168, **BIO 169**Corequisites: OTA 130, **OTA161**

This course is designed to provide the knowledge and skills needed for working with individuals experiencing varied medical and physical conditions within their socioeconomic and cultural environments. Topics include medical terminology, common diagnoses, structures, and functions that change with disease processes, assessment and treatment priorities for specific problems and conditions, treatment planning, and intervention. Upon completion, students should be able to recognize common symptoms, prioritize problems, and provide for patient safety and infection control when planning and implementing treatment. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

OTA 180 Psychosocial DysfunctionPrerequisites: PSY 281, **ENG 112**Corequisites: OTA 130, **OTA 162**

This course uses theories and principles related to psychological/psychiatric health and illnesses as well as provides training in assessing and treating symptoms of dysfunction and therapeutic use of self and groups. Topics include psychiatric illnesses, symptoms of dysfunction, assessment and treatment of individuals, planning and facilitating therapeutic groups, client safety, and psychosocial aspects of practice. Upon completion, students should be able to plan effectively and conduct individual and group treatment for client

conditions related to psychosocial dysfunction recognizing temporal, socioeconomic, and cultural contexts. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

OTA 220 OT Media II

Prerequisites: OTA 120, OTA 130, **OTA 170**

Corequisites: None

This course provides training in appropriate and accurate assessment and intervention skills related to orthotics, prosthetics, assistive devices, environmental controls, and Americans with Disabilities Act (ADA) issues. Topics include ergonomics and hand function, splint selection/fabrication, changes that improve access for persons with disabilities, use of modalities in treatment, and computers in occupational therapy intervention. Upon completion, students should be able to demonstrate proficiency in fabricating and monitoring orthotic devices, constructing and modifying assistive devices, using ADA guidelines, and using computers for therapeutic purposes. Course Hours Per Week: Class, 1. Lab, 6. Semester Hours Credit, 3.

OTA 240 Professional Skills II

Prerequisites: OTA 140

Corequisites: None

This course builds upon and expands skills developed in OTA 140 with emphasis on documentation, supervisory relationships, involvement in the profession, and clinical management skills. Topics include clarification of roles and responsibilities, detailed examination of the supervisory process, professional participation in organizations, and the mechanics of assisting in clinic operations. Upon completion, students should be able to work effectively with a supervisor, plan and implement a professional activity, and perform routine clinic management tasks. Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

OTA 245 Professional Skills III

Prerequisites: OTA 240

Corequisites: None

This course provides preparation for Fieldwork II experiences using skills and knowledge gained in OTA 140 and OTA 240 to promote integration into the professional community. Topics include interview skills, résumé production, conflict resolution, professional presentations, participation in research activities, and completion of all forms required for Fieldwork II. Upon completion, students should be able to complete independently employment-seeking activities and provide in-service training. Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

OTA 250 Life Span Skills II

Prerequisites: **OTA 130**

Corequisites: PSY 241, **OTA 164**, OTA 170, OTA 180

This course uses knowledge gained from PSY 241 as it applies to occupational therapy practice from young adulthood through old age. Emphasis is on identification and discussion of common disabilities and chronic diseases, assessments, planning and interventions used with these populations, and activity programming. Upon completion, students should be able to identify and use assessments, interventions, and activities for adults with selected disabilities and losses in various settings. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

OTA 260 Fieldwork II-Placement 1

Prerequisites: Successful completion of all required OTA curriculum courses except OTA 261 and OTA 280

Corequisites: This course must be completed within 18 months of the completion of all other OTA course work

This course provides clinical experience under the direct supervision of experienced Occupational Therapist Registered or Certified Occupational Therapy Assistant personnel working in various practice settings. Emphasis is on final clinical preparation for entry-level practice in the profession. Upon completion, students should be able to meet all critical competencies established by the curriculum and the American Occupational Therapy Association guidelines for entry-level practice. Course Hours Per Week: Clinical, 18. Semester Hours Credit, 6.

OTA 261 Fieldwork II-Placement 2

Prerequisites: Successful completion of all required OTA curriculum courses except OTA 260 and OTA 280

Corequisites: This course must be completed within 18 months of the completion of all other OTA course work

This course provides clinical experience under the direct supervision of experienced Occupational Therapist Registered or Certified Occupational Therapy Assistant personnel working in various practice settings. Emphasis is on final clinical preparation for entry-level practice in the profession. Upon completion, students should be able to meet all critical competencies established by the curriculum and the American Occupational Therapy Association guidelines for entry-level practice. Course Hours Per Week: Clinical, 18. Semester Hours Credit, 6.

OTA 280 Professional Transitions

Prerequisites: OTA 260 or OTA 261

Corequisites: Enrollment in either OTA 260 or OTA 261

This course provides closure to the educational program following Fieldwork II placements. Emphasis is on portfolio development and presentation, program evaluation, Fieldwork II experience analysis and synthesis, and final preparation for the certification examination. Upon completion, students should be able to enter the occupational therapy work force with supportive documentation demonstrating progress toward meeting critical competencies set forth by the curriculum. Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PHLEBOTOMY-all phlebotomy courses are deleted. Program is no longer offered.

PHYSICAL EDUCATION

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 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 is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

PED 113 Aerobics I

Prerequisites: None

Corequisites: None

This course introduces a program of cardiovascular fitness involving continuous, rhythmic exercise. Emphasis is on developing cardiovascular efficiency, strength, and flexibility as well as learning safety precautions. Upon completion, students should be able to select and implement a rhythmic aerobic exercise program. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

PED 114 Aerobics II

Prerequisites: PED 113

Corequisites: None

This course provides a continuation of a program of cardiovascular fitness involving rhythmic exercise. Emphasis is on a wide variety of aerobic activities which include cardiovascular efficiency, strength, and flexibility. Upon completion, students should be able to participate in and design a rhythmic aerobic exercise routine. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

PED 120 Walking for Fitness

Prerequisites: None

Corequisites: None

This course introduces fitness through walking. Emphasis is on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

PED 121 Walk, Jog, Run

Prerequisites: None

Corequisites: None

This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

PED 128 Golf-Beginning

Prerequisites: None

Corequisites: None

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, and 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 the etiquette of golf. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PED 130 Tennis-Beginning

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 is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PED 139 Bowling-Beginning

Prerequisites: None

Corequisites: None

This course introduces the fundamentals of bowling. Emphasis is 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 is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PED 142 Lifetime Sports

Prerequisites: None

Corequisites: None

This course is designed to give an overview of a variety of sports activities. Emphasis is on the skills and rules to participate in a variety of lifetime sports. Upon completion, students should be able to demonstrate an awareness of the importance of participating in lifetime sports activities. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab 2. Semester Hours Credit, 1.

PED 143 Volleyball-Beginning

Prerequisites: None

Corequisites: None

This course covers the fundamentals of volleyball. Emphasis is 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 is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PED 145 Basketball-Beginning

Prerequisites: None

Corequisites: None

This course covers the fundamentals of basketball. Emphasis is on skill development, knowledge of the rules, and basic game strategy. Upon completion, students should be able to participate in recreational basketball. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PED 148 Softball

Prerequisites: None

Corequisites: None

This course introduces the fundamental skills and rules of softball. Emphasis is on proper techniques and strategies for playing softball. Upon completion, students should be able to participate in recreational softball. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PED 162 Angling

Prerequisites: None

Corequisites: None

This course introduces the sport of angling. Emphasis is on fishing with the use of artificial lures. Upon completion, students should be able to cast and retrieve using baitcaster and spinning reels as well as identify the various types of artificial lures. Students also use fly rods and fish with live bait. A North Carolina fishing license is required. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PED 172 Outdoor Living

Prerequisites: None

Corequisites: None

This course is designed to acquaint the beginning camper with outdoor skills. Topics include camping techniques such as cooking and preserving food, safety, and setting up camp. Upon completion, students should be able to set up camp sites in field experiences using proper procedures. Students also learn backpacking techniques and how to prepare for overnight backpacking trips. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 1. Lab, 2. Semester Hours Credit, 2.

PED 183 Folk Dancing

Prerequisites: None

Corequisites: None

This course teaches the fundamental folk dance movements along with cultural traditions from various countries. Emphasis is on the history and traditions of the folk dance as well as the movements and the dances themselves. Upon completion, students should be able to demonstrate folk dances as well as knowledge of their origins and cultural traditions. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PED 186 Dancing for Fitness

Prerequisites: None

Corequisites: None

This course is designed to develop movement and recreational dance skills, safety, fitness, coordination, and techniques used to teach various groups. Emphasis is placed on participation and practice with adapting dances for ages and ability levels. Upon completion, students should be able to demonstrate knowledge of fitness through social, folk, and square dance participation and instruction. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

PHILOSOPHY

PHI 215 Philosophical Issues

Prerequisites: ENG 111

Corequisites: None

This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is 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 to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PHI 240 Introduction to Ethics

Prerequisites: ENG 111

Corequisites: None

This course introduces theories about the nature and foundations of moral judgments as well as applications to contemporary moral issues. Emphasis is on utilitarianism, rule-based ethics, existentialism, relativism versus objectivism, and egoism. Upon completion, students should be able to apply various ethical theories to individual moral issues such as euthanasia, abortion, crime and punishment, and justice. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PHARMACY

PHM 110 Introduction to Pharmacy

Prerequisites: Enrollment in the Pharmacy Technology program or permission of the program director

Corequisites: PHM 111 and PHM 115

This course introduces pharmacy practice and the technician's role in a variety of pharmacy settings. Topics include medical terminology and abbreviations, drug delivery systems, law and ethics, prescription and medication orders, and the health care system. Upon completion, students should be able to explain the role of pharmacy technicians, read and interpret drug orders, describe quality assurance, and utilize pharmacy references. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PHM 111 Pharmacy Practice I

Prerequisites: Enrollment in the Pharmacy Technology program

Corequisites: PHM 110 and PHM 115

This course provides instruction in the technical procedures for preparing and dispensing drugs in the hospital and retail settings under supervision of a registered pharmacist. Topics include drug packaging and labeling, out-patient dispensing, hospital dispensing procedures, controlled substance procedures, inventory control, and non-sterile compounding. Upon completion, students should be able to perform basic supervised dispensing techniques in a variety of pharmacy settings. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

PHM 112 Pharmacy Practice II

Prerequisites: PHM 110, PHM 111, and PHM 115

Corequisites: ENG 111

This course provides continued instruction in the technical procedures for preparing and dispensing drugs in the hospital setting under a pharmacist's supervision. Topics include more detailed coverage of unit-dose dispensing, ward stock systems, materials management, automated dispensing, and quality assurance. Upon completion, students should be able to perform all technical aspects of hospital drug delivery systems. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

PHM 115 Pharmacy Calculations

Prerequisites: Enrollment in the Pharmacy Technology program

Corequisites: PHM 110 and PHM 111 or permission of the program director

This course provides an introduction to the metric, avoirdupois, and apothecary systems of measurement and the calculations used in pharmacy practice. Topics include ratio and proportion, dosage determinations, percentage preparations, reducing and enlarging formulas, dilution and concentration, aliquots, specific gravity and density, and flow rates. Upon completion, students should be able to perform correctly the calculations required to prepare a medication order properly. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PHM 118 Sterile Products

Prerequisites: PHM 110, PHM 111, and PHM 115

Corequisites: None

This course provides an introduction to intravenous admixture preparation and other sterile products, including total parenteral nutrition and chemotherapy. Topics include aseptic techniques; facilities, equipment, and supplies utilized in admixture preparation; incompatibility and stability; laminar flow hoods; immunizations and irrigation solutions; and quality assurance. Upon completion, students should be able to describe and demonstrate the steps involved in preparing intermittent and continuous infusions, total parenteral nutrition, and chemotherapy. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

PHM 120 Pharmacology I

Prerequisites: Enrollment in the Pharmacy Technology program or permission of the program director and BIO 163 or BIO 168 and BIO 169

Corequisites: None

This course introduces the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include nutritional products, blood modifiers, hormones, diuretics, cardiovascular agents, respiratory drugs, and gastrointestinal agents. Upon completion, students should be able to place major drugs into correct therapeutic categories and identify indications, side effects, and trade and generic names. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PHM 125 Pharmacology II

Prerequisites: PHM 120, BIO 163 or BIO 168 and BIO 169

Corequisites: None

This course provides a continuation of the study of the properties, effects, and therapeutic value of the primary agents in the major drug categories. Topics include autonomic and central nervous system agents, anti-inflammatory agents, and anti-infective drugs. Upon completion, students should be able to place major drugs

into correct therapeutic categories and identify indications, side effects, and trade and generic names. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PHM 138 Pharmacy Clinical

Prerequisites: Enrollment in the Pharmacy Technology program, ENG 111, PHM 112, PHM 118, and PHM 120

Corequisites: PHM 125, PHM140, and PSY 118

This course provides an opportunity to work in pharmacy settings under a pharmacist's supervision. Emphasis is on communicating effectively with personnel, developing proper employee attitude, and dispensing medications. Upon completion, students should be able to demonstrate an understanding of pharmacy operations, utilize references, dispense medications, prepare patient charges, and operate computers efficiently. Course Hours Per Week: Clinical, 24. Semester Hours Credit, 8.

PHM 140 Trends in Pharmacy

Prerequisites: PHM 112, PHM 118, and PHM 120

Corequisites: Pharmacy Clinical as per program plan of study, PHM 138, PHM 125, and PSY 118

This course covers the major issues, trends, and concepts in contemporary pharmacy practice. Topics include professional ethics, continuing education, job placement, and the latest developments in pharmacy technician practice. Upon completion, students should be able to demonstrate a basic knowledge of the topics discussed. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

PHYSICAL SCIENCE

PHS 121 Applied Physical Science I

Prerequisites: MAT 060 and RED 080 or satisfactory score on placement test

Corequisites: None

This course introduces the general principles of physics and chemistry. Topics include measurement, motion, Newton's laws of motion, momentum, energy, work, power, heat, thermodynamics, waves, sound, light, electricity, magnetism, and chemical principles. Upon completion, students should be able to demonstrate an understanding of the physical environment and be able to apply the scientific principles to observations experienced. This course includes concepts of chemistry and physics that apply to dental materials; laboratory work reinforces the principles discussed in lecture. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

PHYSICS

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by that college's placement test.

PHY 110 Conceptual Physics

Prerequisites: MAT 060 and RED 090 or satisfactory score on placement test

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. Laboratory experiments and computer-based exercises enhance and consolidate the understanding of basic physical principles and applications. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PHY 110A Conceptual Physics Lab

Prerequisites: MAT 060 and RED 090 or satisfactory score on placement test
Corequisites: PHY 110

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 0. Lab, 2. Semester Hours Credit, 1.

PHY 131 Physics-Mechanics

Prerequisites: RED 090 or satisfactory score on placement test and MAT 121
Corequisites: None

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. Laboratory experiments and computer-based tutorials consolidate the basic principles of physics that are used in the engineering field. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

PHY 151 College Physics I

Prerequisites: RED 090 or satisfactory score on placement test and MAT 172
Corequisites: None

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. Laboratory experiments, along with some computer-based labs and tutorials, consolidate the basic principles discussed in lectures. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

PHY 152 College Physics II

Prerequisites: PHY 151
Corequisites: None

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved

and display analytical problem-solving ability for the topics covered. Laboratory experiments, along with some computer-based labs and tutorials, consolidate the basic principles discussed in lectures. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences/mathematics.* Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

PHY 251 General Physics I

Prerequisites: RED 090 or satisfactory score on placement test and MAT 271

Corequisites: 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. Laboratory experiments, some of which are computer-based, and computer-based tutorials enhance and consolidate the basic principles discussed in the theoretical section of the course. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences-mathematics.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

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. Laboratory experiments, some of which are computer-based, and computer-based tutorials enhance and consolidate the basic principles discussed in the theoretical section of the course. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in natural sciences-mathematics.* Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

PLUMBING

PLU 111 Intro to Basic Plumbing

Prerequisites: MAT 060, RED 080, or satisfactory score on placement test

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. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

POLITICAL SCIENCE

POL 120 American Government

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement tests

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. Basic concepts of state and local government and their relationships with the federal government are also examined. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

POL 220 International Relations

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course is a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is on regional and global cooperation and conflict, economic development, trade, non-governmental organizations, and international institutions such as the World Court and United Nations. Upon completion, students should be able to identify and discuss major international relationships, institutions, and problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PORTUGUESE

POR 111 Elementary Portuguese I

Prerequisites: ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: POR 181 and ENG 090

This course introduces the fundamental elements of the Portuguese language within a cultural context. Emphasis is 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 Portuguese and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

POR 112 Elementary Portuguese II

Prerequisites: POR 111 and ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: POR 182 and ENG 090

This continuation of POR 111 focuses on the fundamental elements of the Portuguese language within a cultural context. Emphasis is 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 Portuguese and demonstrate further cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week, 3. Semester Hours Credit, 3.

POR 181 Portuguese Lab I

Prerequisites: None

Corequisites: POR 111

This course provides an opportunity to enhance acquisition of the fundamental elements of the Portuguese language. Emphasis is 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 Portuguese and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

POR 182 Portuguese Lab 2

Prerequisites: POR 181

Corequisites: POR 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the Portuguese language. Emphasis is 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 Portuguese and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

POR 211 Intermediate Portuguese I

Prerequisite: ENG 080 and RED 080 or satisfactory score on placement test and POR 112

Corequisites: ENG 090 or satisfactory score on placement test

This course provides a review and expansion of the essential skills of the Portuguese language. Emphasis is on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PSYCHOLOGY**PSY 110 Life Span Development**

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement tests

Corequisites: None

This course provides an introduction to the study of human growth and development. Emphasis is 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. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PSY 118 Interpersonal Psychology

Prerequisites: ENG 080 and RED 080, or satisfactory score on placement test

Corequisites: None

This course introduces the principles of psychology as they relate to personal and professional development. Emphasis is on personality traits, communication and leadership styles, effective problem solving, and cultural diversity as they apply to personal and work environments. Upon completion, students should be able to demonstrate an understanding of these principles of psychology as they apply to personal and professional development. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PSY 150 General Psychology

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social behavioral science.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PSY 237 Social Psychology

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. Emphasis is on the application of principles as they relate to contemporary social issues. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PSY 241 Developmental Psychology

Prerequisites: PSY 150

Corequisites: None

This course is a study of human growth and development. Emphasis is 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. Course work includes projects which emphasize research. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

PSY 259 Human Sexuality

3 0 3

Prerequisites: PSY 150

Corequisites: None

This course provides the biological, psychological, and sociocultural aspects of human sexuality and related research. Topics include reproductive biology, sexual and psychosexual development, sexual orientation, contraception, sexually transmitted diseases, sexual disorders, theories of sexuality, and related issues. Upon completion, students should be able to demonstrate an overall knowledge and understanding of human sexuality. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.*

Delete

PSY 263 Educational Psychology
Prerequisite: PSY 150
Corequisite: None

PSY 281 Abnormal Psychology
Prerequisite: PSY 150
Corequisite: None

This course provides an examination of the various psychological disorders as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is 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. Course work includes projects. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

RESPIRATORY THERAPY

RCP 110 Introduction to Respiratory Care
Prerequisites: Enrollment in the Respiratory Care program
Corequisites: RCP 132

This course introduces the respiratory care profession. Topics include the role of the respiratory care practitioner, medical gas administration, basic patient assessment, infection control, and medical terminology. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations. Introductory concepts in respiratory anatomy and physiology are covered. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

RCP 111 Therapeutics/Diagnostics
Prerequisites: RCP 110
Corequisites: RCP 145

This course is a continuation of RCP 110. Emphasis is on entry-level therapeutic and diagnostic procedures used in respiratory care. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations. Concepts in respiratory pharmacology are covered. Course Hours Per Week: Class, 4. Lab, 3. Semester Hours Credit, 5.

RCP 112 Patient Management
Prerequisites: RCP 111
Corequisites: RCP 155

This course provides entry-level skills in adult and pediatric mechanical ventilation as well as respiratory care procedures in traditional and alternative settings. Emphasis is on therapeutic modalities and physiological effects of cardiopulmonary rehabilitation, home care, mechanical ventilation, and monitoring. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

RCP 115 C-P Pathophysiology
Prerequisites: BIO 168 and BIO 169

Corequisites: None

This course introduces the etiology, pathogenesis, and physiology of cardiopulmonary diseases and disorders. Emphasis is on clinical signs and symptoms along with diagnoses, complications, prognoses, and management. Upon completion, students should be able to demonstrate competence in these concepts through written evaluations. Course Hours Per Week: Class, 2. Semester Hours Credit, 2.

RCP 132 RCP Clinical Practice I

Prerequisites: Enrollment in the Respiratory Care program

Corequisites: RCP 110

This course provides entry-level clinical experience. Emphasis is on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. Topics include basic Cardiac Life Support, Universal Precautions, patient assessment techniques, oxygen, humidity, and aerosol delivery devices. Course Hours Per Week: Clinical 6. Semester Hours Credit, 2.

RCP 145 RCP Clinical Practice II

Prerequisites: RCP 110 and RCP 132

Corequisites: RCP 111

This course provides entry-level clinical experience. Emphasis is on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. Medicated aerosol administration, pulmonary clearance mechanisms, and artificial airway maintenance are emphasized. Course Hours Per Week: Clinical, 15. Semester Hours Credit, 5.

RCP 153 RCP Clinical Practice III

Prerequisites: RCP 111 and RCP 145

Corequisites: RCP112

This course provides entry-level clinical experience. Emphasis is placed on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. Course Hours Per Week: Clinical, 9. Semester Hours Credit, 3.

RCP 210 Critical Care Concepts

Prerequisites: Successful completion of three semesters of the Respiratory Care program

Corequisites: RCP 235

This course provides further refinement of acute patient care and underlying pathophysiology. Topics include a continuation in the study of mechanical ventilation, underlying pathophysiology, and introduction of critical care monitoring. Upon completion, students should be able to demonstrate competence in concepts and procedures through written and laboratory evaluations. This course also covers knowledge and skills the student must have to provide respiratory care for neonatal and pediatric patients. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

RCP 211 Advanced Monitoring/Procedures

Prerequisites: RCP 210

Corequisites: RCP 245

This course includes advanced information gathering and decision making for the respiratory care professional. Topics include advanced cardiac monitoring and special procedures. Upon completion, students should be able to evaluate, design, and recommend appropriate care plans through written and laboratory evaluations. Course Hours Per Week: Class, 3. Lab, 3. Semester Hours Credit, 4.

RCP 215 Career Prep-Advanced Level

Prerequisites: Enrollment in the Respiratory Care program

Corequisites: None

This course provides preparation for employment and for the advanced-level practitioner credentialing exam. Emphasis is on review of the NBRC Advanced-Level Practitioner Exam as well as supervision and management. Upon completion, students should be able to complete successfully the appropriate self-assessment examinations and meet the requirements for employment. Course Hours Per Week: Lab, 3. Semester Hours Credit, 1.

RCP 235 RCP Clinical Practice IV

Prerequisites: RCP 112 and RCP 155

Corequisites: RCP 210

This course provides advanced practitioner clinical experience. Emphasis is on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. Advanced concepts in adult mechanical ventilation as well as equipment and techniques for pediatric and neonatal mechanical ventilation are introduced. Course Hours Per Week: Clinical, 15. Semester Hours Credit, 5.

RCP 245 RCP Clinical Practice V

Prerequisites: RCP 210 and RCP 235

Corequisites: RCP 211

This course provides advanced practitioner clinical experience. Emphasis is on therapeutic and diagnostic patient care. Upon completion, students should be able to demonstrate clinical competence in required performance evaluations. Adult, pediatric, and neonatal critical care experiences are continued; and invasive and noninvasive monitoring devices are discussed. Course Hours Per Week: Clinical, 15. Semester Hours Credit, 5.

READING

Initial student placement in developmental courses is based on individual college placement testing policies and procedures. Students should begin developmental course work at the appropriate level indicated by that college's placement test.

RED 070 Essential Reading Skills

Prerequisites: None

Corequisites: None

This course is designed to strengthen reading skills. Emphasis is on basic word attack skills, vocabulary, transitional words, paragraph organization, basic comprehension skills, and learning strategies. Upon completion, students should be able to demonstrate competence in the skills required for RED 080. Emphasis is

also on demonstrating successful academic skills and using current materials such as a newspaper. This course does not satisfy the developmental reading prerequisite for ENG 111. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

RED 080 Introduction to College Reading

Prerequisites: RED 070, or satisfactory score on placement test

Corequisites: None

This course introduces effective reading and inferential thinking skills in preparation for RED 090. Emphasis is 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. Emphasis is also on demonstrating successful academic behaviors and using diverse materials such as periodicals. This course does not satisfy the developmental reading prerequisite for ENG 111. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

RED 090 Improved College Reading

Prerequisites: RED 080, or satisfactory score on placement test

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. Some sections may specialize in discipline-specific reading and academic success skills. This course satisfies the developmental reading prerequisite for ENG 111; the developmental English prerequisite for ENG 111 must also be met. Course Hours Per Week: Class, 3. Lab, 2. Semester Hours Credit, 4.

RELIGION

REL 110 World Religions

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

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. Major topics include the role of women in the various religions, the relationship between religion and science, and the involvement of religion in world peace and in preservation of the environment. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

REL 211 Introduction to Old Testament

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course is a survey of the literature of the Hebrews with readings from the law, prophets, and other writings. Emphasis is on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

INFORMATION SYSTEMS SECURITY

SEC 110 Security Concepts

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. Course Hours Per Week: Class, 3. Lab, 0. Semester Hours Credit, 3.

SEC 150 Secure Communications

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

SEC 160 Secure Admin I

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

SEC 210 Intrusion Detection

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

SEC 220 Defense-In-Depth

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. *This course is restricted to the Information Systems Security, the Information Systems Security/Operating Systems, and the Information Systems Security/Security Hardware curriculums.*
Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

SEC 240 Wireless Security
Prerequisites: SEC 110 and NET 175
Corequisites: None

This course introduces security principles and topics related to the wireless networking environment. Topics include network topologies, network protocols, security issues, and best practices for wireless environments. Upon completion, students should be able to design, setup, manage, and secure a wireless network.
Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

SEC 289 Security Capstone Project
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. *This course is restricted to the Information Systems Security, the Information Systems Security/Operating Systems, and the Information Systems Security/Security Hardware curriculums.*
Course Hours Per Week: Class, 1. Lab, 4. Semester Hours Credit, 3.

Simulation and Game Development

New courses

SGD 111 Introduction to SGD
Prerequisites: None
Corequisites: None

This course provides students with an introduction to simulation and game development. Topics include setting, storytelling, narrative, character design, interface design, game play, internal economy, core mechanics, game genres, AI, the psychology of game design and professionalism. Upon completion, students should be able to demonstrate knowledge of the major aspects of simulation and game design and development. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

SGD 113 SGD Programming
Prerequisites: None
Corequisites: None

This course introduces the fundamentals of programming languages and tools employed in simulation and game development. Emphasis is placed on programming concepts used to create simulations and games. Upon completion, students should be able to program simple games and/or simulations. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

SGD 114 3D Modeling
Prerequisites: None

Corequisites: None

This course introduces the tools required to create three dimensional (3D) models. Emphasis is placed on exploring tools used to create 3D models. Upon completion, students should be able to create and animate 3D models using 3D modeling tools. Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

SOCIOLOGY

SOC 210 Introduction to Sociology

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SOC 213 Sociology of the Family

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course covers the institution of the family and other intimate relationships. Emphasis is on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SOC 215 Group Processes

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course introduces group processes and dynamics. Emphasis is on small group experiences, roles and relationships within groups, communication, cooperation and conflict resolution, and managing diversity within and among groups. Upon completion, students should be able to demonstrate the knowledge and skills essential to analyze group interaction and to work effectively in a group context. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SOC 220 Social Problems

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course provides an in-depth study of current social problems. Emphasis is on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SOC 225 Social Diversity

Prerequisites: ENG 090 and RED 090, or satisfactory score on placement test

Corequisites: None

This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in social/behavioral sciences.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPANISH

SPA 111 Elementary Spanish I

Prerequisites: ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: SPA 181 and ENG 090, or satisfactory score on placement test

This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is 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 as well as demonstrate cultural awareness. This course must be taken with the accompanying lab. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPA 112 Elementary Spanish II

Prerequisites: ENG 080 and RED 080 or satisfactory score on placement test and SPA 111

Corequisites: SPA 182 and ENG 090 or satisfactory score on placement test

This course is a continuation of SPA 111 and focuses on the fundamental elements of the Spanish language within a cultural context. Emphasis is 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 should be able to demonstrate further cultural awareness. *This course must be taken with the accompanying lab. This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPA 120 Spanish for the Workplace

Prerequisites: ENG 080 and RED 080 or satisfactory score on placement test

Corequisites: ENG 090 or satisfactory score on placement test

This course offers applied Spanish for the workplace to facilitate basic communication with people whose native language is Spanish. Emphasis is on oral communication and career-specific vocabulary that targets health, business, and/or public service professions. Upon completion, students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity. Strong emphasis will be placed on the knowledge and understanding of the Hispanic culture. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPA 161 Cultural Immersion

Prerequisite: SPA 111

Corequisite: None

This course explores Hispanic culture through intensive study taking place on campus and during a field experience in a host country or area. Topics include an overview of linguistic, historical, geographical, sociopolitical, economic, and/or artistic concerns of the area visited. Upon completion, students should be able to exhibit first-hand knowledge of issues pertinent to the host area and demonstrate understanding of cultural differences. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Class, 2. Lab, 3. Semester Hours Credit, 3.

SPA 181 Spanish Lab 1

Prerequisites: None

Corequisites: SPA 111

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is 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 as well as demonstrate cultural awareness. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

SPA 182 Spanish Lab 2

Prerequisites: SPA 181

Corequisites: SPA 112

This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is 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 as well as demonstrate cultural awareness. *This course is approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.* Course Hours Per Week: Lab, 2. Semester Hours Credit, 1.

SPA 211 Intermediate Spanish I

Prerequisites: ENG 080 and RED 080 or satisfactory score on placement test and SPA 112

Corequisites: ENG 090 or satisfactory score on placement test

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is 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. Listening comprehension is reinforced with audiotapes outside the classroom. *This course has been approved to satisfy the Comprehensive Articulation Agreement for the general education core requirement in humanities/fine arts.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPA 212 Intermediate Spanish II

Prerequisites: ENG 080 and RED 080 or satisfactory score on placement test and SPA 211

Corequisites: ENG 090 or satisfactory score on placement test

This course provides a continuation of SPA 211. Emphasis is 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. Listening comprehension is reinforced with audiotapes outside of class. *This course has been approved to satisfy the Comprehensive*

Articulation Agreement for the general education core requirement in humanities/fine arts. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPA 221 Spanish Conversation

Prerequisites: ENG 080 and RED 080 or satisfactory score on placement test and SPA 212 or permission of program director

Corequisites: ENG 090 or satisfactory score on placement test

This course provides an opportunity for intensive communication in spoken Spanish. Emphasis is on vocabulary acquisition and interactive communication through the discussion of media materials and authentic texts. Upon completion, students should be able to discuss selected topics, express ideas and opinions clearly, and engage in formal and informal conversations. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPA 231 Reading and Composition

Prerequisite: SPA 212 or permission of the program director

Corequisite: ENG 090 or satisfactory score on placement test

This course provides an opportunity for intensive reading and composition in Spanish. Emphasis is on the use of literary and cultural materials to enhance and expand reading and writing skills. Upon completion, students should be able to demonstrate in writing an in-depth understanding of assigned readings. Medical terminology will be introduced through the analysis of appropriate health- and human service-related readings. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPA 281 Spanish Lab 3

Prerequisites: SPA 182

Corequisites: None

This course provides an opportunity to enhance the review and expansion of the essential skills of the Spanish language. Emphasis is on the study of authentic and representative literary and cultural texts through the use of various supplementary learning media and materials. Stress is placed on the use of sophisticated grammatical structures indispensable to the art of translation and interpretation. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.* Course Hours Per Week: Class, 0; Lab, 2; Semester Hours Credit, 1.

COMMUNITY SPANISH INTERPRETER

SPI 111 Cultural & Ethical Issues

Prerequisites: None

Corequisites: None

This course provides cultural sensitivity instruction, as well as in-depth focus on professional ethics for the interpreter. Emphasis is placed on researching the fundamentals of professional ethics, creating ethical guidelines for interpreters and learning about Hispanic cultural issues. Upon completion, students should be able to apply professional ethics and an understanding of the Hispanic culture in the interpreting field. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPI 113 Introduction to Spanish Interpreting

Prerequisites: ENG 090 or satisfactory score on placement test, SPI 214, or permission of the program director
Corequisites: None

This course introduces the field of interpreting, interpretation models, cognitive processes associated with interpretation, professional ethical standards, employment opportunities, and working conditions. Topics include specialized jargon, code of ethics, interpreter assessments/qualifications, and protocol associated with various settings. Upon completion, students should be able to explain the rationale for placement of interpreters and apply ethical standards to a variety of working situations. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPI 114 Analytical Skills Spanish Interpreting

Prerequisites: ENG 090 or satisfactory score on placement test, SPI 113, or permission of the program director
Corequisites: None

This course is designed to improve cognitive processes associated with interpreting, listening, short-term memory, semantic equivalence, visual/auditory processing, thought organization, and logic. Emphasis is placed on developing skills necessary to generate equivalent messages between Spanish and English. Upon completion, students should be able to consecutively interpret non-technical, interactive messages between Spanish and English. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPI 213 Review of Grammar

Prerequisites: SPA 212 or permission of program director
Corequisites: ENG 090 or satisfactory score on placement test

This course is designed to review the common elements of Spanish grammar in oral and written form. Emphasis is on the fundamental grammatical concepts of the Spanish language. Upon completion, students should be able to demonstrate comprehension and correct usage of specified grammatical concepts in both oral and written form.

SPI 214 Introduction to Translation

Prerequisites: ENG 090 or satisfactory score on placement test, SPI 213
Corequisites: None

This course is designed to improve the quality of Spanish to English and English to Spanish translation. Emphasis is on the practice of translating Spanish to English and English to Spanish in a variety of prose styles. Upon completion, students should be able to demonstrate usage and understanding of the processes involved in translating. Additionally, students will be introduced to sight translation, the oral interpretation of a written text from one language to another. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPI 221 Consecutive Interp I

Prerequisites: ENG 090, or satisfactory score on placement test; SPA 212, or permission of program director
Corequisites: None

This course introduces skills of consecutive interpretation used by professional interpreters. Topics include memory development, note taking, sight translation and non-verbal communication. Upon completion, students should be able to apply consecutive interpretation techniques in a variety of role-playing situations and settings.

This course will particularly focus on interpretation topics and techniques in medical settings. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SPI 222 Consecutive Interp II

Prerequisites: SPI 221

Corequisites: None

This course builds upon Consecutive Interpretation I by providing students with additional opportunities to enhance skills in increasingly complex situations. Emphasis is on practical role-play situations which simulate a variety of settings. Upon completion, students should be able to demonstrate a more advanced ability to consecutively interpret messages of a varied nature. This course will particularly emphasize advanced interpretation techniques and ethical standards in hospital and clinical settings. Course Hours Per Week: Class, 3. Semester Hours Credit, 3.

SURGICAL TECHNOLOGY

SUR 110 Introduction to Surgical Technology

Prerequisites: Enrollment in the Surgical Technology program

Corequisites: 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: professional behaviors, medical terminology, interdepartmental/peer/relationships, operating room environment/safety, pharmacology, anesthesia, incision sites, physiology of wound healing, and biomedical sciences. Upon completion, students should be able to apply theoretical knowledge of the course topics to the operative environment. Course Hours Per Week: Class, 3; Lab, 0; Clinical, 0; Semester Hours Credit, 3.

SUR 111 Perioperative Patient Care

Prerequisites: Enrollment in the Surgical Technology program

Corequisites: SUR 110

This course provides theoretical knowledge for the application of essential operative skills during the perioperative phase. Topics include surgical asepsis, sterilization and disinfection, and perioperative patient care. Upon completion, students should be able to demonstrate the principles and practices of aseptic technique, sterile attire, basic care preparation, and other relevant skills. Course Hours Per Week: Class, 5; Lab, 6; Clinical, 0; Semester Hours Credit, 7.

SUR 122 Surgical Procedures I

Prerequisites: SUR 110 and SUR 111

Corequisites: SUR 123

This course provides an introduction to selected basic and intermediate surgical specialties 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. Course Hours Per Week: Class, 5; Lab, 3; Clinical, 0; Semester Hours Credit, 6.

SUR 123 Surgical Clinical Practice I

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 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. Course Hours Per Week: Class, 0; Lab, 0; Clinical, 21; Semester Hours Credit, 7.

SUR 134 Surgical Procedures II

Prerequisites: SUR 123

Corequisites: SUR 135 and SUR 137

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, integrate, and apply theoretical knowledge of the course topics to the clinical operative environment.

Course Hours Per Week: Class, 5. Semester Hours Credit, 5.

SUR 135 Surgical Clinical Practice II

Prerequisites: SUR 123

Corequisites: SUR 134 and SUR 137

This course provides clinical experience with a variety of perioperative assignments to build skills required for complex perioperative patient care. Emphasis is 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. Course Hours Per Week: Clinical, 12. Semester Hours Credit, 4.

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, résumé preparation, and interviewing techniques. Upon completion, students should be able to prepare a résumé, demonstrate appropriate interview techniques, and identify strengths and weaknesses in preparation for certification. Course Hours Per Week: Class, 1. Semester Hours Credit, 1.

WEB TECHNOLOGIES

New Course Description

WEB 110 Internet/Web Fundamentals

Prerequisites: None

Corequisites: CIS 110

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 mark-up language, and effectively use and understand the function of search engines. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

New Course Description

WEB 115 Web Markup and Scripting

Prerequisites: WEB 110

Corequisites: CIS 115

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

WEB 120 Intro Internet Multimedia

Prerequisites: WEB 115

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

WEB 140 Web Development Tools

Prerequisites: WEB 110

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

New Course Description

WEB 180 Active Server Pages

Prerequisites: CIS 115 and WEB115

Corequisites: DBA 110

This course introduces active server programming. Topics include HTML forms processing and other issues related to developing active web applications. Upon completion, students should be able to create and maintain a dynamic website. Class, 2. Lab, 2. Semester Hours Credit, 3.

WEB 182 PHP Programming

Prerequisites: CIS 115 and WEB 115

Corequisites: DBA 110

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

WEB 183 Perl Programming

Prerequisites: CIS 115

Corequisites: None

This course introduces students to the Perl Programming language. Topics include programming techniques using CGI script, input/output operations, sequence, iteration, selection, arithmetic operations, subroutines, modules, integrating database, pattern matching and other related topics. Upon completion, students should be able to design, code, test, and debug Perl language programs. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

New Course Description

WEB 210 Web Design

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

WEB 230 Implementing Web Serv

Prerequisites: NET 125 and NOS 130

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

WEB 250 Database Driven Websites

Prerequisites: DBA 110 and WEB 140

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. Course Hours Per Week: Class, 2. Lab, 2. Semester Hours Credit, 3.

WEB 289 Internet Technologies Project

Prerequisites: WEB 230 and WEB 250

Corequisites: None

This course provides an opportunity to complete a significant Web technologies project from the design phase through implementation with minimal instructor support. Emphasis is on project definition, documentation,

installation, testing, presentation, and training. Upon completion, students should be able to complete an Internet project from the definition phase through implementation. Course Hours Per Week: Class, 2. Lab, 4. Semester Hours Credit, 3.

WELDING

WLD 112 Basic Welding Processes

Prerequisite: MAT 060, RED 070, or satisfactory score on placement test

Corequisite: None

This course introduces basic welding and cutting. Emphasis is 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. Course Hours Per Week: Class, 1. Lab, 3. Semester Hours Credit, 2.

WLD 121 GMAW (MIG) FCAW/Plate

Prerequisite: MAT 060, RED 070, or satisfactory score on placement test

Corequisite: None

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions. Course Hours Per Week: Class, 2. Lab, 6. Semester Hours Credit, 4.

DURHAM TECHNICAL COMMUNITY COLLEGE
PLAN OF STUDY
UNIVERSITY TRANSFER
Associate in Arts Degree (A10100)

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have advanced approval. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. Students must demonstrate computer competency as part of their graduation requirements.

College Transfer Success (1 hr)

ACA 122 is required for all university transfer students. Under CAA, course will transfer as an elective hour.		
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General Education Core (44 hrs)	Semester and Year	Credits	Grades
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English Composition (6 hours)

ENG 111			
ENG 113 or 112			

Humanities/Fine Arts (12 hours)

Select four courses from at least three disciplines. Must include one **200-level core English literature**.

ART 111, 114, 115, 117; DRA 122; ENG 231, 232, 233, 241, 242, 243, 251, 252, 261, 262; FRE 111, 112, 211; GER 111, 112, 211; HUM 110, 121, 150, 160; ITA 111, 112, 211; MUS 110, 113; PHI 215, 240; POR 111, 112, 211; REL 110, 211; SPA 111, 112, 211, 212

English Literature			
Foreign Language			
Foreign Language			
3 rd Discipline			

Social/Behavioral Sciences (12 hours)

Select four courses from at least three disciplines. Must include one history.

ANT 210, 220; ECO 251, 252; GEO 111, 112; HIS 111, 112, 121, 122, 131, 132; POL 120, 220; PSY 150, 237, 241, 281; SOC 210, 213, 220, 225

History			
2 nd Discipline			
3 rd Discipline			
Other			

Natural Sciences (8 hours)

Select from BIO 111, 112, 120, 130; CHM 131 and 131A, 151, 152; GEL 111, 113; PHY 151 or 251; PHY 152 or 252. (Students may not receive credit for both CHM 131/131A and CHM 151)

Mathematics (6 hours)

Must include accompanying labs. Select from MAT 140, 151, 155, 161, 171, 172, 263, 271, 272, 273.

(Students may not receive credit for both MAT 151 and MAT 155 or for MAT 161 and MAT 171 or for MAT 263 and MAT 271.)

Other Required Hours (20 hours)	Semester and Year	Credits	Grades
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Physical Education (1 hour)

Select from PED 111, 113, 120, 121, 128, 130, 139, 142, 143, 145, 148, 162, 172, 183 186

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Capstone Course (3 hours)

HUM 212 or BIO 140			
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Electives (15 hours)

Select from courses above, excluding PED, and from ACC 120, 121; ART 131, 132; BIO 163, 168, 169, 250, 275; BUS 110, 115; CHM 132, 251, 252, 263; CIS 110, 115; CJC 111, 121, 141; COM 120, 231; CSC 120, 130, 134, 151, DFT 170; DRA 170; ENG 272, 273, 274; FRE 181, 182; GER 181, 182; HEA 110, 112; HIS 151; HUM 115; ITA 181, 182; MAT 140A, 145, 161A, 171A, 172A, 263A, 285; PHY 110, 110A, POR 181, 182; PSY 259; SPA 161, 181, 182, 221, 231.

If you enroll in FRE 111, FRE 112, GER 111, GER 112, ITA 111, ITA 112, MAT 140, MAT 161, MAT 171, MAT 172, MAT 263, POR 111, POR 112; SPA 111, and/or SPA 112, accompanying lab courses must be included in elective hours. (Students may not receive credit for both BIO 163 and BIO 168.)

Math Lab(s)			
Foreign Language Lab(s)			

Computer Competency . All A.A. students must demonstrate computer competency to graduate. That competency may be demonstrated by a satisfactory score on the computer competency test, by credit by exam, or by completing CIS 110 or CIS 115.

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Computer Competency			
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Note: ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Statewide Articulation Agreement*

I. Transfer Assured Admissions Policy (TAAP)

Beginning in Fall Semester 2005, a student who successfully earns the A.A. or A.S. degree and who falls under the other requirements of the Comprehensive Articulation Agreement (CAA) is assured admission to one of the 16 UNC institutions. See your advisor for further details.

II. A.A. and A.S. Graduates

If you successfully earn the A.A. or A.S. degree, following your acceptance at one of North Carolina's 16 public universities, you will transfer as a junior, receive 64 hours of credit (if no grades are "D"), and satisfy the institution-wide, lower-division general education requirements of that university. Lists of courses required for certain majors are available in the University Transfer Office, Phillips 313.

III. Students Completing 44-Hour Core

If you successfully complete the 44-hour core, following your acceptance at one of North Carolina's 16 public universities or selected private institutions the 44 hours will transfer as a block (if no grades are "D") and will satisfy the institution-wide, lower-division general education requirements of that university. Lists of courses required for certain majors are available in the University Transfer Office, Phillips 313.

IV. Other Students

If you transfer to one of North Carolina's 16 public universities before completing the 44-hour core, you will receive credit for core courses, and the university you attend will evaluate other courses individually. Lists of courses required for certain majors are available in the University Transfer Office, Phillips 313.

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

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY ACCOUNTING (A25100) Associate Degree Day Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
5 Semesters							
FALL SEMESTER, 2008							
ACA 111	College Student Success	1	0	1			
ACC 120	Principles of Financial Accounting	3	2	4			
BUS 110	Introduction to Business	3	0	3			
CIS 110	Introduction to Computers	2	2	3			
ENG 111	Expository Writing*	3	0	3			
MAT 115	Mathematical Models*	2	2	3			
SPRING SEMESTER, 2009							
ACC 121	Principles of Managerial Accounting	3	2	4			
ACC 140	Payroll Accounting	1	2	2			
CTS 130	Spreadsheet	2	2	3			
ECO 251	Principles of Microeconomics	3	0	3			
ENG 112	Argument-Based Research	3	0	3			
SUMMER TERM, 2009							
BUS 115	Business Law I	3	0	3			
COM 231	Public Speaking	3	0	3			
PSY 150	General Psychology	3	0	3			
	Humanities Elective						
FALL SEMESTER, 2009							
ACC 129	Individual Income Taxes	2	2	3			
ACC 150	Accounting Software Applications	1	2	2			
ACC 220	Intermediate Accounting I	3	2	4			
ACC 225	Cost Accounting	3	0	3			
	Major Elective						
SPRING SEMESTER, 2010							
ACC 130	Business Income Taxes	2	2	3			
ACC 221	Intermediate Accounting II	3	2	4			
ACC 227	Practices in Accounting	3	0	3			
ACC 269	Auditing and Assurance Services	3	0	3			
	Major Elective						

(Over)

Required Courses Credit Hours	66
Humanities Elective Credit Hours	3
Major Elective Credit Hours	6

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 75

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Major Electives: ACC 226, ACC 240, ACC 250, BUS 116, BUS 210, BUS 228, BUS 240, DBA 110, CTS 230

MAJOR ELECTIVES:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY ACCOUNTING (A25100)

Associate Degree
Evening Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
8 Semesters							
FALL SEMESTER, 2008							
ACA 111	College Student Success	1	0	1			
ACC 120	Principles of Financial Accounting	3	2	4			
CIS 110	Introduction to Computers	2	2	3			
MAT 115	Mathematical Models*	2	2	3			
SPRING SEMESTER, 2009							
ACC 121	Principles of Managerial Accounting	3	2	4			
CTS 130	Spreadsheet	2	2	3			
ENG 111	Expository Writing*	3	0	3			
SUMMER TERM, 2009							
BUS 110	Introduction to Business	3	0	3			
ENG 112	Argument-Based Research	3	0	3			
PSY 150	General Psychology	3	0	3			
FALL SEMESTER, 2009							
ACC 140	Payroll Accounting	1	2	2			
ACC 220	Intermediate Accounting I	3	2	4			
ECO 251	Principles of Microeconomics	3	0	3			
SPRING SEMESTER, 2010							
ACC 129	Individual Income Taxes	2	2	3			
ACC 221	Intermediate Accounting II	3	2	4			
ACC 225	Cost Accounting	3	0	3			
SUMMER TERM, 2010							
BUS 115	Business Law I	3	0	3			
COM 231	Public Speaking	3	0	3			
	Humanities Elective						

(Over)

FALL SEMESTER, 2010

ACC 130	Business Income Taxes	2	2	3
ACC 227	Practices in Accounting	3	0	3
ACC 269	Auditing and Assurance Services	3	0	3

SPRING SEMESTER, 2011

ACC 150	Accounting Software Applications	1	2	2
	Major Elective			
	Major Elective			

Required Courses Credit Hours	66
Humanities Elective Credit Hours	3
Major Electives Credit Hours	6

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 75

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVES:

Major Electives: ACC 226, ACC 240, ACC 250, BUS 116, BUS 210, BUS 228, BUS 240, DBA 110, CTS 230

MAJOR ELECTIVES:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2001-2002

PLAN OF STUDY

Effective Fall Semester
2008-2009

Animal Care and Management Technology (A55100) Associate Degree

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credits			

Courses to be taken at Durham Technical Community College or Alamance Community College

BIO	111	General Biology I	3	3	4			
BIO	130	Introduction to Zoology	3	3	4			Prerequisite: BIO 111
CJC	131	Criminal Law	3	0	3			
ENG	111	Expository Writing*	3	0	3			
MAT	115	Mathematical Models*	2	2	3			
MED	121	Medical Terminology I	3	0	3			
PHI	240	Introduction to Ethics	3	0	3			
PSY	150	General Psychology	3	0	3			
SPA	111	SPA 111 Elementary Spanish I	3	0	3			
	and							
SPA	181	Spanish Lab I	0	2	2			DTCC requires lab

TOTAL SEMESTER HOURS AT DURHAM TECH (NOT TO EXCEED 32 SEMESTER HOURS)

Courses to be taken at Alamance Community College

						Available only at Alamance		
ACM	110	Introduction to Animal Care	3	0	3			
ACM	111	Health Care for Animals	3	0	3			
ACM	112	Facility Management	3	0	3			
ACM	113	Animal Handling	2	2	3			
ACM	210	Law Pertaining to Animals	4	0	4			
ACM	211	Applied Animal Behavior	3	0	3			
ACM	212	Community Health	3	0	3			
ACM	213	Euthanasia	2	2	3			
ANS	115	Animal Feeds and Nutrition	3	0	3			
ENG	115	Oral Communication	3	0	3			
POL	130	State and Local Government	3	0	3			
PSY	115	Stress Management	2	0	2			

COE	115	<i>Work Experience Seminar</i>	1	0	1			
COE	111	<i>Co-op Work Experience I</i>	10	0	1			

TOTAL SEMESTER HOURS AT ALAMANCE (NO LESS THAN 32 HOURS)

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 64

Courses in italics are not taught at Durham Technical Community College

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Revised Spring
2007

DURHAM TECHNICAL COMMUNITY COLLEGE

PLAN OF STUDY

ASSOCIATE DEGREE NURSING

Associate Degree

Evening Scheduling Option

Effective Fall Semester
2007-2009

LPN to ADN Track

The following plan of study is the standard curriculum for the **LPN to ADN Track** for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admission office to determine if readmission is necessary.

Course Title			Hours				Grade	Semester	Remarks			
			Class	Lab	Clin	Credit						
6 Semesters												
FALL SEMESTER, 2007												
ACA	111	College Student Success	1	0	0	1						
BIO	168	Anatomy and Physiology I	3	3	0	4						
PSY	150	General Psychology	3	0	0	3						
SPRING SEMESTER, 2008												
BIO	169	Anatomy and Physiology II	3	3	0	4						
NUR	189	Nursing Transition	1	3	0	2						
SUMMER TERM, 2008												
NUR	120B	Nursing II	2.5	1.5	3	4						
NUR	186	Clinical Supplement	0	0	3	1						
PSY	281	Abnormal Psychology	3	0	0	3						
FALL SEMESTER, 2008												
NUR	130	Nursing III	4	3	6	7						
SOC	210	Introduction to Sociology	3	0	0	3						
SPRING SEMESTER, 2009												
BIO	275	Microbiology	3	3	0	4						
NUR	210B	Nursing IV	2.5	1.5	6	5						
ENG	111	Expository Writing*	3	0	0	3						
SUMMER TERM, 2009												
NUR	210A	Nursing IV	2.5	1.5	6	5						
FALL SEMESTER, 2009												
ENG	112	Argument-Based Research	3	0	0	3						
NUR	220	Nursing V	4	3	15	10						
		Humanities Elective										

(Over)

Required Course Credit Hours	62
Humanities Elective Credit Hours	3
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 65*	

****Upon successful completion of NUR 189 and NUR 120B, students who are already licensed practical nurses in North Carolina will receive credit for NUR 110 and NUR 120.***

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results. CIS 070, CIS 113, or CIS 110 may also be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Note: Students begin regular course work in fall 2007, and then are admitted to the LPN to ADN program in the spring semester of 2008.

Revised Spring Semester 2006-2007	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY ASSOCIATE DEGREE NURSING (A45100) Associate Degree Day Scheduling Option	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours				Grade	Semester	Remarks
			Class	Lab	Clin	Credit			
General Education Courses required prior to NUR 110									
BIO	168	Anatomy & Physiology I	3	3	0	4			
ENG	111	Expository Writing* I	3	0	0	3			
PSY	150	General Psychology	3	0	0	3			
BIO	169	Anatomy & Physiology II	3	3	0	4			
SOC	210	Introduction to Sociology	3	0	0	3			
ENG	112	Argument-Based Research	3	0	0	3			
ACA	111	College Student Success	1	0	0	1			
General Education Courses required prior to NUR 120									
BIO	275	Microbiology	3	3	0	4			
General Education Courses required prior to NUR 130									
PSY	281	Abnormal Psychology	3	0	0	3			
General Education Courses required prior to NUR 210									
		Humanities Elective	3	0	0	3			
FALL SEMESTER									
NUR	110	Nursing I	5	3	6	8			
SPRING SEMESTER									
NUR	120	Nursing II	5	3	6	8			
NUR	186	Clinical Supplement	0	0	3	1			
SUMMER TERM									
NUR	130	Nursing III	4	3	6	7			
FALL SEMESTER									
NUR	210A	Nursing IV	2.5	1.5	6	5			
NUR	210B	Nursing IV	2.5	1.5	6	5			
SPRING SEMESTER									
NUR	220	Nursing V	4	3	15	10			
Required Course Credit Hours						72			
Humanities Elective Credit Hours						3			
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE						75			

(Over)

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results. CIS 070, CIS 113, or CIS 110 may also be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring
2007

DURHAM TECHNICAL COMMUNITY COLLEGE

PLAN OF STUDY

ASSOCIATE DEGREE NURSING

Associate Degree

Evening Scheduling Option

Effective Fall Semester
2007-2009

LPN to ADN Track

The following plan of study is the standard curriculum for the **LPN to ADN Track** for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admission office to determine if readmission is necessary.

Course Title			Hours				Grade	Semester	Remarks			
			Class	Lab	Clin	Credit						
6 Semesters												
FALL SEMESTER, 2007												
ACA	111	College Student Success	1	0	0	1						
BIO	168	Anatomy and Physiology I	3	3	0	4						
PSY	150	General Psychology	3	0	0	3						
SPRING SEMESTER, 2008												
BIO	169	Anatomy and Physiology II	3	3	0	4						
NUR	189	Nursing Transition	1	3	0	2						
SUMMER TERM, 2008												
NUR	120B	Nursing II	2.5	1.5	3	4						
NUR	186	Clinical Supplement	0	0	3	1						
PSY	281	Abnormal Psychology	3	0	0	3						
FALL SEMESTER, 2008												
NUR	130	Nursing III	4	3	6	7						
SOC	210	Introduction to Sociology	3	0	0	3						
SPRING SEMESTER, 2009												
BIO	275	Microbiology	3	3	0	4						
NUR	210B	Nursing IV	2.5	1.5	6	5						
ENG	111	Expository Writing*	3	0	0	3						
SUMMER TERM, 2009												
NUR	210A	Nursing IV	2.5	1.5	6	5						
FALL SEMESTER, 2009												
ENG	112	Argument-Based Research	3	0	0	3						
NUR	220	Nursing V	4	3	15	10						
		Humanities Elective										

(Over)

Required Course Credit Hours	62
Humanities Elective Credit Hours	3
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 65*	

****Upon successful completion of NUR 189 and NUR 120B, students who are already licensed practical nurses in North Carolina will receive credit for NUR 110 and NUR 120.***

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results. CIS 070, CIS 113, or CIS 110 may also be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Note: Students begin regular course work in fall 2007, and then are admitted to the LPN to ADN program in the spring semester of 2008.

Revised Spring Semester 2007	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY GENERAL EDUCATION Associate Degree Day and Evening Program	Effective Fall Semester 2008-2009
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Students in the General Education Program receive the Associate in General Education degree (AGE) upon completion of 64 credit hours. The flexible AGE program is designed for individuals wishing to broaden their education with emphasis on personal interest, growth, and development. This program is not designed as a transfer program. The two-year AGE program provides students opportunities to study English, literature, fine arts, philosophy, social science, science, and mathematics at the college level and to explore technical areas of study.

A total of 64 credit hours is required for the Associate in General Education degree; and each student must complete a minimum 18-hour group of courses in English, social sciences, humanities, and mathematics/science. The remaining hours may be selected from any courses numbered 110 and above as found in the North Carolina Community College System Common Course Library. Credits from other colleges and universities will be evaluated on an individual basis.

Students who already have a college degree may transfer up to 36 hours of coursework into the General Education program for elective hours. Courses that are equivalent to the 18-hour group of courses will also be accepted for transfer. Students seeking a first degree may transfer more than 36 elective hours into the program, provided that at least $\frac{1}{4}$ of the total credit hours required are completed at Durham Tech including 9 of the final 18 hours.

At Durham Tech, the Program Director and academic advisors work one-on-one with AGE students to individualize their plans of study to fit their academic needs. Students may enroll in this individualized program any semester and can complete requirements through day, evening, or weekend classes.

ASSOCIATE IN GENERAL EDUCATION

ACA 111 College Success or ACA 122-College Transfer Success- 1 credit hour

The Associate in General Education degree is awarded upon successful completion of 64 semester credit hours including the minimum in each of the areas below. All courses must be numbered 110 or above.

English - 6 credit hours:

ENG 111 and either ENG 112 or ENG 113

Humanities - 6 credit hours selected from:

ART, DRA, ENG (excluding ENG 111, 112, 113), FRE, GER, HUM, ITA, MUS, PHI, POR, REL, SPA

Mathematics or Science - 3 credit hours selected from:

BIO, CHM, GEL, MAT, PHY

Social Sciences - 3 credit hours selected from:

ANT, ECO, GEO, HIS, POL, PSY, SOC

Computer Competency: All AGE students must demonstrate computer competency to graduate. That competency may be demonstrated by a satisfactory score on the computer competency test, by credit by exam, or by completing CIS 110 or CIS 113.

Electives – a minimum of 46 semester credit hours selected from course prefixes above and COM; ENG (courses numbered 110 and above not used to satisfy English requirements listed above); HEA; PED; or any technical courses numbered 110 or above as found in the North Carolina Community College System Common Course Library. A maximum of 7 semester hours credit from health (HEA), and physical education (PED) (with a limit of 2 semester credit hours from PED courses) and college orientation (ACA) courses can be counted toward the Elective requirement

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

ASSOCIATE IN GENERAL EDUCATION (A10300)

Name _____

WORK SHEET

	Semester and Year	Credits	Grade
ACA 111 (College Success) or ACA 122 (College Transfer Success) 1 hour			

I. English (Composition) 6 hours*

ENG 111			
ENG 112 or 113			

II. Humanities (6 hours)*

Choose from ART, DRA, ENG (excluding ENG 111, 112, 113),
FRE, GER, HUM, ITA, MUS, PHI, POR, REL, SPA

III. Social Sciences (3 hours)*

Choose from ANT, ECO, GEO, HIS, POL, PSY, SOC

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IV. Mathematics or Sciences (3 hours)*

Choose from BIO, CHM, GEL, MAT, PHY

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V. Electives (a minimum of 46 semester hours credit.

See other side of page for approved prefixes)*

VI. Computer Competency –AGE students must demonstrate computer competency to graduate. That competency may be demonstrated by a satisfactory score on the computer competency test, by credit by exam, or by completing CIS 110 or CIS 113.			

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2002-2003

PLAN OF STUDY ARCHITECTURAL TECHNOLOGY **Architectural CAD Option (C40100C)** Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
2 Semesters							
FALL SEMESTER, 2008							
ARC 111	Intro to Architectural Technology	1	6	3			
ARC 112	Construction Materials and Methods	3	2	4			
ARC 114	Architectural CAD	1	3	2			
SPRING SEMESTER, 2009							
ARC 113	Residential Architectural Technology	1	6	3			
ARC 220	Advanced Architectural CAD	1	3	2			
ARC 221	Architectural 3-D CAD	1	4	3			

MINIMUM SEMESTER HOURS REQUIRED FOR CERTIFICATE 17

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY ARCHITECTURAL TECHNOLOGY (A40100) Associate Degree Day Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
5 Semesters							
FALL SEMESTER, 2008							
ACA 111	College Student Success	1	0	1			
ARC 111	Intro to Architectural Technology	1	6	3			
ARC 112	Construction Materials & Methods	3	2	4			
CIS 110	Introduction to Computers	2	2	3			
ENG 111	Expository Writing*	3	0	3			
SPRING SEMESTER, 2009							
ARC 113	Residential Architectural Technology	1	6	3			
ARC 114	Architectural CAD	1	3	2			
ARC 131	Building Codes	2	2	3			
ENG 112	Argument-Based Research	3	0	3			
MAT 121	Algebra/Trigonometry I*	2	2	3			
SUMMER TERM, 2009							
ARC 119	Structural Drafting	2	2	3			
ARC 211	Light Construction Technology	1	6	3			
ARC 220	Advanced Architectural CAD	1	3	2			
ARC 240	Site Planning	2	2	3			
PSY 150	General Psychology	3	0	3			
FALL SEMESTER, 2009							
ARC 132	Specifications & Contracts	2	0	2			
ARC 221	Architectural 3-D CAD	1	4	3			
ARC 230	Environmental Systems	3	3	4			
ARC 263	Introduction to ADA Title III	1	2	2			
PHY 110	Conceptual Physics	3	0	3			
PHY 110A	Conceptual Physics Lab	0	2	1			
SPRING SEMESTER, 2010							
ARC 212	Commercial Construction Technology	1	6	3			
ARC 213	Design Project	2	6	4			

			(Over)	
ARC 235	Architectural Portfolio	2	3	3
ARC 236	Architectural Mech/Elec Tech	0	4	2
	Humanities Elective			

Required Course Credit Hours	69
Humanities Elective Credit Hours	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 72

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVES:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2007

PLAN OF STUDY UNIVERSITY TRANSFER Associate in Science Degree (A10400)

Effective Fall Semester
2008 -2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have advanced approval. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. Students must demonstrate computer competency as part of their graduation requirements.

College Transfer Success (1 hr)

ACA 122 is required for all university transfer students. Under CAA, course will transfer as an elective hour.		
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General Education Core (44 hrs)	Semester and Year	Credits	Grades
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English Composition (6 hours)

ENG 111			
ENG 113 or 112			

Humanities/Fine Arts (9 hours)

Select three courses. Must include one **200-level core English literature**. ART 111, 114, 115, 117; DRA 122; ENG 231, 232, 233, 241, 242, 243, 251, 252, 261, 262; FRE 112, 211; GER 112, 211; HUM 110, 121, 150, 160; ITA 112, 211; MUS 110, 113; PHI 215, 240; POR 112, 211; REL 110, 211; SPA 112, 211, 212.

English Literature 200 level			
Foreign Language 112 or higher			
3rd Discipline			

Social/Behavioral Sciences (9 hours)

Select three courses from at least three disciplines. Must include one history.
ANT 210, 220; ECO 251, 252; GEO 111, 112; HIS 111, 112, 121, 122, 131, 132; POL 120, 220; PSY 150, 237, 241, 281; SOC 210, 213, 220, 225.

History			
2 nd Discipline			
3 rd Discipline			

Natural Sciences/Mathematics (20 Hours) The 20 core hours will include **8 hours** minimum in natural sciences, **6 hours** minimum in math, and an additional **6 hours** chosen from either natural science or math courses.

Natural Sciences (8 hours minimum)

***A minimum two-course sequence from the following general biology, general chemistry, or general physics is required.**

Select from BIO 111, 112; CHM 151, 152; PHY 151,152 or PHY 251, 252.

Mathematics (6 hours minimum)

Select from MAT 151, 155, 171, 172, 263, 271, 272, 273. Must include accompanying labs. Students may not receive credit for both MAT 151 and MAT 155 or for MAT 263 and MAT 271.

Other Required Hours (20 hours)**Semester& Year****Credits****Grades**

Natural Sciences and Mathematics (14 hours, of which 3 hours will be BIO 140) Select from science and math courses listed above and BIO 120, 130, 168, 169, 175, 250, 275; CHM 131, 131A, 251, 252; CSC 120, 130, 134, 151; GEL 111, 113; MAT 285. Students may not receive credit for both CHM 131 and CHM 151 or for both BIO 163 and BIO 168.

Math Lab(s)—171A, 172A, 263A			

Capstone Course (3 hours)

BIO 140			
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Physical Education (1 hour)

Select from PED 111, 113, 114, 120, 121, 128, 130, 139, 142, 143, 145, 148, 162, 172, 183, 186.

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Electives (4)

Please Note: Students who do not place into Foreign Language 112 will need to take Foreign Language 111 plus the accompanying lab for their four elective hours. As those students will also need an additional hour for the lab for Foreign Language 112., they will graduate with 65 hours.

Select from courses above, excluding PED, or from ACC 120, 121; ART 131, 132; BUS 110, 115; CHM 132, 263; CIS 110, 115; CJC 111, 121, 141; COM 120, 231; DFT 170; DRA 170; ENG 272, 273, 274; FRE 111, 181, 182; GER 111, 181, 182; HEA 110, 112; HIS 151; HUM 115, 212; ITA 111, 181, 182; MAT 140, 140A, 145; POR 111, 181, 182; PHY 110, 110A, PSY 259; SPA 111, 161, 181, 182, 221.

If you enroll in FRE 111, FRE 112, GER 111, GER 112, ITA 111, ITA 112, MAT 140, MAT 171, MAT 172, MAT 263, POR 111, POR 112, SPA 111, and/or SPA 112, accompanying lab course must be included in elective hours.

Foreign Language Lab(s)			

All A.S. students must demonstrate computer competency to graduate. That competency may be demonstrated by a satisfactory score on the computer competency test, by credit by exam, or by completing CIS 110 or CIS 115.

Computer Competency			
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Note: ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Statewide Articulation Agreement*

I. Transfer Assured Admissions Policy (TAAP)

Beginning in Fall Semester 2005, a student who successfully earns the A.A. or A.S. degree and who falls under the other requirements of the Comprehensive Articulation Agreement (CAA) is assured admission to one of the 16 UNC institutions. See your advisor for further details.

II. A.A. and A.S. Graduates

If you successfully earn the A.A. or A.S. degree, following your acceptance at one of North Carolina's 16 public universities, you will transfer as a junior, receive 64 hours of credit (if no grades are "D"), and satisfy the institution-wide, lower-division general education requirements of that university. Lists of courses required for certain majors are available in the University Transfer Office, Phillips 313.

III. Students Completing 44-Hour Core

If you successfully complete the 44-hour core, following your acceptance at one of North Carolina's 16 public universities, the 44 hours will transfer as a block (if no grades are "D") and will satisfy the institution-wide, lower-division general education requirements of that university. Lists of courses required for certain majors are available in the University Transfer Office, Phillips 313.

IV. Other Students

If you transfer to one of North Carolina's 16 public universities before completing the 44-hour core, you will receive credit for core courses, and other courses will be evaluated individually by the university you attend. Lists of courses required for certain majors are available in the University Transfer Office, Phillips 313.

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

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2007

PLAN OF STUDY AUTOMOTIVE SYSTEMS TECHNOLOGY (A60160) Associate Degree Day Program

Effective Spring Semester
2008

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours Lab	Credit	Grade	Semester	Remarks
5 Semesters						
FALL SEMESTER, 2007						
ACA 111	College Student Success	1	0	1		
AUT 110	Intro to Auto Technology	2	2	3		
AUT 116	Engine Repair	2	3	3		
AUT 141	Suspension & Steering Sys	2	3	3		
AUT 151	Brake Systems	2	3	3		
CIS 110	Introduction to Microcomputers	2	2	3		
SPRING SEMESTER, 2008						
ENG 111	Expository Writing*	3	0	3		
COE 111	Co-op Work Experience I	0	10	1		
AUT 161	Basic Automotive Electricity	4	3	5		
AUT 181	Engine Performance I	2	3	3		
AUT 221	Auto Transm/Transaxles	2	3	3		
	Social Science Elective	3	0	3		
SUMMER TERM, 2008						
AUT 171	Auto Climate Control	2	4	4		
AUT 183	Engine Performance II	2	6	4		
FALL SEMESTER, 2008						
MAT 115	Mathematical Models*	2	2	3		
COE 121	Co-op Work Experience	0	10	1		
AUT 163	Adv Auto Electricity	2	3	3		
AUT 211	Automotive Machining	2	6	4		
AUT 281	Adv Engine Performance	2	2	3		
AUT 231	Man Trans/Axles/Drtrains	2	3	3		
SPRING SEMESTER, 2009						
PHY 110	Conceptual Physics	3	0	3		
PHY 110A	Conceptual Physics Lab	0	2	1		
ENG 112	Argument-Based Research	3	0	3		
AUT 114	Safety and Emissions	1	2	2		
HUM 115	Critical Thinking	3	0	3		
AUT 283	Advanced Auto Electronics	2	2	3		

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY AUTOMOTIVE SYSTEMS TECHNOLOGY (A60160) Associate Degree Day Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
5 Semesters							
FALL SEMESTER, 2008							
ACA 111 College Student Success	1	0	1				
AUT 110 Intro to Auto Technology	2	2	3				
AUT 116 Engine Repair	2	3	3				
AUT 141 Suspension & Steering Sys	2	3	3				
AUT 151 Brake Systems	2	3	3				
CIS 110 Introduction to Microcomputers	2	2	3				
SPRING SEMESTER, 2009							
ENG 111 Expository Writing*	3	0	3				
AUT 161 Basic Automotive Electricity	4	3	5				
AUT 181 Engine Performance I	2	3	3				
AUT 221 Auto Transm/Transaxles	2	3	3				
Social Science Elective	3	0	3				
SUMMER TERM, 2009							
AUT 171 Auto Climate Control	2	4	4				
AUT 183 Engine Performance II	2	6	4				
AUT 231 Man Trans/Axles/Dtrains	2	3	3				
FALL SEMESTER, 2009							
COE 111 Co-op Work Experience I	0	10	1				
MAT 115 Mathematical Models*	2	2	3				
AUT 163 Adv Auto Electricity	2	3	3				
AUT 211 Automotive Machining	2	6	4				
AUT 281 Adv Engine Performance	2	2	3				
HUM 115 Critical Thinking	3	0	3				
SPRING SEMESTER, 2010							
COE 121 Co-op Work Experience	0	10	1				
PHY 110 Conceptual Physics	3	0	3				
PHY 110A Conceptual Physics Lab	0	2	1				
ENG 112 Argument-Based Research	3	0	3				
AUT 114 Safety and Emissions	1	2	2				
AUT 283 Advanced Auto Electronics	2	2	3				

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE
 Revised Spring Semester **PLAN OF STUDY** Effective Fall Semester
 2008 **AUTOMOTIVE SYSTEMS TECHNOLOGY (D60160)** 2008-2009
 Diploma
 Day Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Grade	Semester	Remarks
		Lab	Credit			
3 Semesters						
FALL SEMESTER, 2008						
ACA 111	College Student Success	1	0	1		
AUT 110	Intro to Auto Technology	2	2	3		
AUT 116	Engine Repair	2	3	3		
AUT 141	Suspension & Steering Sys	2	3	3		
AUT 151	Brake Systems	2	3	3		
CIS 110	Introduction to Microcomputers	2	2	3		
SPRING SEMESTER, 2009						
AUT 114	Safety and Emissions	1	2	2		
AUT 161	Basic Automotive Electricity	4	3	5		
AUT 181	Engine Performance I	2	3	3		
AUT 221	Auto Transm/Transaxles	2	3	3		
COM 231	Public Speaking *	3	0	3		
SUMMER TERM, 2009						
COE 111	Co-op Work Experience	0	10	1		
AUT 171	Auto Climate Control	2	4	4		
AUT 183	Engine Performance II	2	6	4		
AUT 231	Man Trans/Axles/Drtrains	2	3	3		

TOTAL SEMESTER HOURS REQUIRED FOR Diploma 44

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Fall Semester
2007

DURHAM TECHNICAL COMMUNITY COLLEGE
PLAN OF STUDY
AUTOMOTIVE SYSTEMS TECHNOLOGY
Drivetrain (C60160D)
Certificate

Effective Spring Semester
2008

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
AUT 110	Intro to Auto Technology		2	2	3			
AUT 116	Engine Repair		2	3	3			
AUT 231	Man Trans/Axles/Dtrains		2	3	3			
AUT 221	Auto Transm/Transaxles		2	3	3			
CIS 110	Introduction to Microcomputers		2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Spring Semester 2007	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY AUTOMOTIVE SYSTEMS TECHNOLOGY Automotive Electrical (C60160E) Certificate	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
AUT	110	Intro to Auto Technology	2	2	3			
AUT	161	Basic Automotive Electricity	4	3	5			
AUT	163	Adv Auto Electricity	2	3	3			
AUT	283	Advanced Auto Electronics	2	2	3			
CIS	110	Introduction to Microcomputers	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 17

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Spring Semester 2007	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY AUTOMOTIVE SYSTEMS TECHNOLOGY Engine Performance (C60160P) Certificate	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
AUT	110	Intro to Auto Technology	2	2	3			
AUT	181	Engine Performance I	2	3	3			
AUT	183	Engine Performance II	2	6	4			
AUT	281	Adv Engine Performance	2	2	3			
CIS	110	Introduction to Microcomputers	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 16

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Spring Semester
2008

DURHAM TECHNICAL COMMUNITY COLLEGE
PLAN OF STUDY
AUTOMOTIVE SYSTEMS TECHNOLOGY
Automotive Machining (C60160M)
Certificate

New Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
AUT 110	Intro to Auto Technology		2	2	3			
AUT 116	Engine Repair		2	3	3			
AUT 211	Automotive Machining		2	6	4			
WLD 112	Basic Welding Processes		1	3	2			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 12

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring Semester 2007	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY AUTOMOTIVE SYSTEMS TECHNOLOGY Under Car (C60160U) Certificate	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
AUT	110	Intro to Auto Technology	2	2	3			
AUT	141	Suspension & Steering Sys	2	3	3			
AUT	151	Brake Systems	2	3	3			
AUT	114	Safety and Emissions	1	2	2			
CIS	110	Introduction to Microcomputers	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 14

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2006

PLAN OF STUDY
BASIC LAW ENFORCEMENT TRAINING (C55120)
Certificate
Evening Program

Effective Spring Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have advanced approval. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
CJC 100 Basic Law Enforcement Training	9	30	19			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 19

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2002-2003

PLAN OF STUDY Biotechnology (A20100) Associate Degree

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credits			

First Year Courses (to be taken at Durham Technical Community College)*

Fall Semester 2008

BIO	111	General Biology I	3	3	4			
BTC	181	Basic Lab Techniques	3	3	4			
CHM	131	Introduction to Chemistry	3	0	3			
CHM	131A	Introduction to Chemistry Lab	0	3	1			
CIS	110	Introduction to Computers	2	2	3			

Spring Semester 2009

BIO	112	General Biology II	3	3	4			
CHM	132	Organic and Biochemistry	3	3	4			
ENG	111	Expository Writing**	3	0	3			
MAT	151	Statistics I**	3	0	3			

TOTAL SEMESTER HOURS AT DURHAM TECH* 29

Second Year Courses (to be taken at Alamance Community College)

<i>ENG</i>	<i>114</i>	<i>Professional Research & Reporting</i>	3	0	3			
BIO	250	Genetics	3	3	4			
BIO	275	Microbiology	3	3	4			
<i>BTC</i>	<i>281</i>	<i>Bioprocess Techniques</i>	2	6	4			
<i>BTC</i>	<i>285</i>	<i>Cell Culture</i>	2	3	3			
<i>BTC</i>	<i>286</i>	<i>Immunological Techniques</i>	3	3	4			
<i>PHY</i>	<i>121</i>	<i>Applied Physics I</i>	3	2	4			
		<i>Major Elective #1</i>			2			
		<i>Major Elective #2</i>			3			
		<i>Humanities Elective</i>	3	0	3			
		<i>Social/Behavioral Science Elective</i>	3	0	3			

TOTAL SEMESTER HOURS AT ALAMANCE 37

TOTAL SEMESTER HOURS REQUIRED FOR DEGREE 66

(Courses in italics are not offered at Durham Tech)

(Over)

*Additional courses may be taken at Durham Technical Community College, but total hours should not exceed 33 semester hours credit.

**ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

Major Elective #1: (choose one) (Courses in italics are not offered at Durham Tech) *COE 112, BIO 288*

Major Elective #2: (choose one) (Courses in italics are not offered at Durham Tech) *BIO 140, BIO 163, BIO 168, BIO 169, CHM 151, CHM 152, CHM 263, CIS 115, CTS 130, MAT 161, MAT 171, MAT 172, MAT 271, MAT 272, PHY 122*

Humanities/Fine Arts Electives: (Courses in italics are not offered at Durham Tech)
ART 111, HUM 110, HUM 115, MUS 110, PHI 240, SPA 111 AND SPA 181, REL 211, *REL 212*

Social/Behavioral Science Electives: (Courses in italics are not offered at Durham Tech)
POL 120, *POL 130, PSY 115, PSY 135, PSY 150, PSY 234, PSY 241, PSY 246, PSY 247, PSY 281, SOC 210, SOC 213, SOC 220, SOC 225, SOC 230, SOC 232, SOC 234, SOC 240, SOC 242, SOC 244, SOC 250, SOC 252, SOC 254*

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY BUSINESS ADMINISTRATION (A25120) Associate Degree Day Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Credit	Grade	Semester	Remarks
5 Semesters									
FALL SEMESTER, 2008									
ACA	111	College Student Success	1	0	1				
ACC	120	Principles of Financial Accounting	3	2	4				
BUS	110	Introduction to Business	3	0	3				
ECO	251	Principles of Microeconomics	3	0	3				
ENG	111	Expository Writing*	3	0	3				
MAT	115	Mathematical Models*	2	2	3				
SPRING SEMESTER, 2009									
ACC	121	Principles of Managerial Accounting	3	2	4				
BUS	255	Organizational Behavior in Business	3	0	3				
CIS	110	Introduction to Computers	2	2	3				
ECO	252	Principles of Macroeconomics	3	0	3				
ENG	112	Argument-Based Research or ENG 113, Literature-based Research	3	0	3				
SUMMER TERM, 2009									
BUS	115	Business Law I	3	0	3				
HUM	115	Critical Thinking	3	0	3				
PSY	150	General Psychology	3	0	3				
FALL SEMESTER, 2009									
BUS	137	Principles of Management	3	0	3				
BUS	210	Investment Analysis	3	0	3				
CTS	130	Spreadsheet	2	2	3				
MKT	120	Principles of Marketing Major Elective	3	0	3				
SPRING SEMESTER, 2010									
BUS	153	Human Resource Management	3	0	3				
BUS	239	Business Applications Seminar	1	2	2				
BUS	225	Business Finance	2	2	3				
COM	231	Public Speaking	3	0	3				

Major Elective

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(Over)

Required Courses Credit Hours	65
Major Electives Credit Hours	6
Total Semester Hours Required for A.A.S. Degree	71

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Major Electives: BUS 116, BUS 230, BUS 234, BUS 235, BUS 240, INT 110, MKT 123, MKT 125, MKT 220

MAJOR ELECTIVES:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY BUSINESS ADMINISTRATION (A25120) Associate Degree Evening Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours Lab	Credit	Grade	Semester	Remarks
8 Semesters								
FALL SEMESTER, 2008								
ACA	111	College Student Success	1	0	1			
BUS	110	Introduction to Business	3	0	3			
ENG	111	Expository Writing*	3	0	3			
MAT	115	Mathematical Models*	2	2	3			
SPRING SEMESTER, 2009								
CIS	110	Introduction to Computers	2	2	3			
ECO	251	Principles of Microeconomics	3	0	3			
ENG	112	Argument-Based Research	3	0	3			
	or	ENG 113 Literature-Based Research						
SUMMER TERM, 2009								
BUS	115	Business Law I	3	0	3			
HUM	115	Critical Thinking	3	0	3			
FALL SEMESTER, 2009								
ACC	120	Principles of Financial Accounting	3	2	4			
BUS	137	Principles of Management	3	0	3			
MKT	120	Principles of Marketing	3	0	3			
SPRING SEMESTER, 2010								
ACC	121	Principles of Managerial Accounting	3	2	4			
BUS	153	Human Resource Management	3	0	3			
ECO	252	Principles of Macroeconomics	3	0	3			
		Major Elective						
SUMMER TERM, 2010								
PSY	150	General Psychology	3	0	3			
COM	231	Public Speaking	3	0	3			

(Over)

FALL SEMESTER, 2010

CTS	130	Spreadsheet	2	2	3
BUS	210	Investment Analysis	3	0	3
		Major Elective			

SPRING SEMESTER, 2011

BUS	225	Business Finance	2	2	3
BUS	255	Organizational Behavior in Business	3	0	3
BUS	239	Business Application Seminar	1	2	2

Required Courses Credit Hours	65
Major Electives Credit Hours	6
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE	71

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement tests results.

Major Electives: BUS 116, BUS 230, BUS 234, BUS 235, BUS 240, INT 110, MKT 123, MKT 125, MKT 220

MAJOR ELECTIVES:

_____	_____	_____	_____	_____	_____
_____	_____	_____	_____	_____	_____

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2007

PLAN OF STUDY
BUSINESS ADMINISTRATION
HUMAN RESOURCES Option (C25120H)
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
BUS	110	Introduction to Business*	3	0	3			
BUS	255	Organizational Behavior in Business	3	0	3			
BUS	153	Human Resource Management	3	0	3			
BUS	234	Training and Development	3	0	3			
BUS	235	Performance Management	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2007

PLAN OF STUDY
BUSINESS ADMINISTRATION
MARKETING Option (C25120M)
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
BUS	110	Introduction to Business*	3	0	3			
BUS	137	Principles of Management	3	0	3			
MKT	120	Principles of Marketing	3	0	3			
MKT	123	Fundamentals of Selling	3	0	3			
MKT	125	Buying and Merchandising	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring Semester 2007	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY BUSINESS ADMINISTRATION Operations Management Concentration (A2512G) Associate Degree Evening Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

			Hours		Grade	Semester	Remarks			
Course Title	Class	Lab	Credit							
8 Semesters										
FALL SEMESTER, 2008										
ACA	111	College Student Success	1	0	1					
BUS	110	Introduction to Business	3	0	3					
ENG	111	Expository Writing*	3	0	3					
MAT	115	Mathematical Models*	2	2	3					
SPRING SEMESTER, 2009										
ACC	120	Principles of Financial Accounting	3	2	4					
ECO	251	Principles of Microeconomics	3	0	3					
ENG	112	Argument-Based Research	3	0	3					
SUMMER TERM, 2009										
COM	231	Public Speaking	3	0	3					
HUM	115	Critical Thinking	3	0	3					
PSY	150	General Psychology	3	0	3					
FALL SEMESTER, 2009										
CIS	110	Introduction to Computers	2	2	3					
ISC	121	Environmental Health and Safety	3	0	3					
MKT	120	Principles of Marketing	3	0	3					
SPRING SEMESTER, 2010										
CTS	130	Spreadsheet	2	2	3					
ISC	210	Operations and Production Planning	3	0	3					
BUS	255	Organizational Behavior in Business	3	0	3					
SUMMER TERM, 2010										
BUS	115	Business Law I	3	0	3					
BUS	153	Human Resource Management	3	0	3					

(Over)

FALL SEMESTER, 2010

BUS	137	Principles of Management	3	0	3
ISC	131	Quality Management	3	0	3
ISC	215	Job Analysis & Evaluation	3	0	3

SPRING SEMESTER, 2011

BUS	239	Business Applications Seminar	1	2	2
OMT	112	Materials Management	3	0	3
OMT	260	Issues in Operations Management	3	0	3

Total Semester Hours Required for A.A.S. Degree**70**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring Semester 2006	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY BUSINESS ADMINISTRATION Operations Management Concentration (D2512G) Diploma Evening Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks			
			Class	Lab	Credit						
5 Semesters											
FALL SEMESTER, 2008											
ENG	111	Expository Writing*	3	0	3						
ISC	121	Environmental Health and Safety	3	0	3						
MAT	115	Mathematical Models*	2	2	3						
SPRING SEMESTER, 2009											
CIS	110	Introduction to Computers	2	2	3						
ECO	251	Principles of Microeconomics	3	0	3						
ISC	210	Operations and Production Planning	3	0	3						
SUMMER TERM, 2009											
ACC	120	Principles of Financial Accounting	3	2	4						
BUS	115	Business Law I	3	0	3						
FALL SEMESTER, 2009											
BUS	137	Principles of Management	3	0	3						
ISC	131	Quality Management	3	0	3						
MKT	120	Principles of Marketing	3	0	3						
SPRING SEMESTER, 2010											
BUS	255	Organizational Behavior in Business	3	0	3						
OMT	112	Materials Management	3	0	3						
OMT	260	Issues in Operations Management	3	0	3						

Total Semester Hours Required for Diploma	43
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*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V. A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2007

PLAN OF STUDY Computer Information Technology Associate Degree (A25260)

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours		Credit	Semester Offered				Remarks
			Class	Lab		Grade	Fall 08	Spr09	Sum09	
ACA	111	College Student Success	1	0	1		○ ●	○ ●	○ ●	
General Education Courses										
ENG	111	Expository Writing*	3	0	3		○ ● ○	○ ● ○	○ ● ○	
ENG	112	Argument-Based Research	3	0	3		○ ● ○	○ ● ○	○ ● ○	
MAT	140	Survey of Mathematics*	3	0	3		○ ● ○	○ ●	○ ●	
MAT	140A	Survey of Mathematics Lab	0	2	1		○ ● ○	○ ●	○ ●	
COM	231	Public Speaking	3	0	3		○ ● ○	○ ● ○	○ ● ○	
		Social Science Elective			3		○ ● ○	○ ● ○	○ ● ○	
		Humanities Elective			3		○ ● ○	○ ● ○	○ ● ○	
Technical Core Courses										
BUS	110	Introduction to Business	3	0	3		○ ● ○	○ ● ○	○ ●	
CIS	110	Introduction to Computers	2	2	3		○ ● ○	○ ● ○	○ ●	
CIS	115	Intro to Prog & Logic	2	3	3		○ ●	○ ●	○	
DBA	110	Database Concepts	2	3	3		○ ● ○	● ○	○	
NET	125	Networking Basics	1	4	3		○ ●	○	○ ●	
NOS	110	Operating System Concepts	2	3	3		○ ●	○ ●	○	
SEC	110	Security Concepts	3	0	3		○ ●	○ ●	○	
Computer Information Technology										
CTS	120	Hardware/Software Support	2	3	3		○ ●	○ ●		
NOS	120	Linux/UNIX Single User	2	2	3		○ ●	○ ●	●	
NOS	130	Windows Single User	2	2	3		○ ●	○ ●		
NOS	230	Windows Admin I	2	2	3		●	○		
CTS	285	Systems Analysis & Design	3	0	3		○			
CTS	289	Systems Support Project	1	4	3		○	○		
COE	110	World of Work	1	0	1		○	○		
COE	111	Co-op Work Experience I	0	10	1		○	○		
		Major Elective I			3					
		Major Elective II			3					
		Major Elective III			3					

Required Courses Credit Hours 55
 Major Electives Credit Hours 9
 Humanities Elective Credit Hours 3
 Social Science Elective Credit Hours 3
Total Semester Hours Required for A.A.S. Degree 70

○ Day ● Evening ○ Online

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Major Electives – Select 9 credit hours from one of the groups below.

Course Title			Class	Hours		Credit	Grade	Semester Offered			Remarks
				Lab				Fall 08	Spr09	Sum09	
Operating Systems group											
A+ and Windows											
CTS	220	Adv Hardware/Software Support	2	3	3		☐ ☒	☐ ☒	☒		
NOS	231	Windows Admin II	2	2	3		☐	☒			
NOS	232	Windows Admin III	2	2	3						
Cisco Routing (CCNA)											
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		☐	☒			
Linux											
NOS	220	Linux/UNIX Admin I	2	2	3		☐	☒			
NOS	221	Linux/UNIX Admin II	2	2	3						
Security											
SEC	150	Secure Communications	2	2	3				☒		
SEC	160	Secure Admin I	2	2	3		☒	☐			
SEC	210	Intrusion Detection	2	2	3				☐		

Software and Web group

Software

OST	136	Word Processing	1	2	2		○ ●		○	
OST	236	Adv Word/Information Proc	2	2	3			○ ●		
CTS	130	Spreadsheet	2	2	3		● ○	○ ○	○	
CTS	230	Advanced Spreadsheet	2	2	3		○			
DBA	115	Database Applications	2	2	3			○		
CTS	125	Presentation Graphics	2	2	3		●			
CIS	165	Desktop Publishing I	2	2	3			●		

Web

WEB	110	Internet/Web Fundamentals	2	2	3		○ ○	● ○		
WEB	115	Web Markup and Scripting	2	2	3			●		
WEB	140	Web Development Tools	2	2	3			●		

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2006

PLAN OF STUDY
Computer Information Technology (C25260L)
Linux+ and CLP Option
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
SEC	110	Security Concepts	3	0	3			
NOS	110	Operating System Concepts	2	2	3			
NOS	120	Linux/UNIX Single User	2	2	3			
NOS	220	Linux/UNIX Admin I	2	2	3			
NOS	221	Linux/UNIX Admin II	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2006

PLAN OF STUDY
Computer Information Technology (C25260M)
Microsoft Option
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
SEC	110	Security Concepts	3	0	3			
NOS	110	Operating System Concepts	2	2	3			
NOS	130	Windows Single User	2	2	3			
NOS	230	Windows Admin I	2	2	3			
NOS	231	Windows Admin II	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2006

PLAN OF STUDY
Computer Information Technology
Software Specialist Option (C25260SS)
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
CIS	110	Introduction to Computers	2	2	3			
OST	136	Word Processing	1	2	2			
CTS	130	Spreadsheet	2	2	3			
DBA	110	Database Concepts	2	3	3			
CTS	125	Presentation Graphics	2	2	3			
CIS	165	Desktop Publishing I	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 17

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY Computer Programming Associate Degree (A25130)

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours		Credit	Grade	Semester Offered			Remarks
			Class	Lab			Fall 08	Spr09	Sum09	
ACA	111	College Student Success	1	0	1		○ ●	○ ●	○ ●	
General Education Courses										
ENG	111	Expository Writing*	3	0	3		○ ● ○	○ ● ○	○ ● ○	
ENG	112	Argument-Based Research	3	0	3		○ ● ○	○ ● ○	○ ● ○	
MAT	140	Survey of Mathematics*	3	0	3		○ ● ○	○ ●	○ ●	
MAT	140A	Survey of Mathematics Lab	0	2	1		○ ● ○	○ ●	○ ●	
COM	231	Public Speaking	3	0	3		○ ● ○	○ ● ○	○ ● ○	
		Social Science Elective			3		○ ● ○	○ ● ○	○ ● ○	
		Humanities Elective			3		○ ● ○	○ ● ○	○ ● ○	
Technical Core Courses										
BUS	110	Introduction to Business	3	0	3		○ ● ○	○ ● ○	○ ●	
CIS	110	Introduction to Computers	2	2	3		○ ● ○	○ ● ○	○ ●	
CIS	115	Intro to Prog & Logic	2	3	3		○ ●	○ ●	○	
DBA	110	Database Concepts	2	3	3		○ ●	● ○	○	
NET	125	Networking Basics	1	4	3		○ ●	○	○ ●	
NOS	110	Operating System Concepts	2	3	3		○ ●	○ ●	○	
SEC	110	Security Concepts	3	0	3		○ ●	○ ●	○	
Computer Programming										
Select one Operating System course for 3 credits										
NOS	120	Linux/UNIX Single User	2	2	3		○ ●	○ ●	●	
NOS	130	Windows Single User	2	2	3		○ ●	○ ●		
Select two Programming courses for 6 credits										
CSC	139	Visual BASIC Prog	2	3	3			●		
CSC	151	JAVA Programming	2	3	3		●			
CSC	153	C# Programming	2	3	3		○			
Select two Advanced Programming courses for 6 credits										
CSC	239	Adv Visual BASIC Prog	2	3	3		●			
CSC	251	Adv JAVA Programming	2	3	3			●		
CSC	253	Adv C# Programming	2	3	3			○		
CTS	285	Systems Analysis & Design	3	0	3		○			
CSC	289	Programming Capstone Proj	1	4	3			○		
COE	110	World of Work	1	0	1		○	○		
COE	111	Co-op Work Experience I	0	10	1		○	○		
		Major Elective I			3					
		Major Elective II			3					

Total Semester Hours Required for A.A.S. Degree

70

○ Day ● Evening ○ Online

Major Electives -- Select 6 credit hours from one of the two groups below without repeating any required course on page 1.

			Hours			Semester Offered				
Course Title			Class	Lab	Credit	Grade	Fall 08	Spr09	Sum09	Remarks
Programming and Databases										
CSC	134	C++ Programming	2	3	3		○			
CSC	139	Visual BASIC Prog	2	3	3		○	●	●	
CSC	239	Adv Visual BASIC Prog	2	3	3		●			
CSC	151	JAVA Programming	2	3	3		●			
CSC	251	Adv JAVA Programming	2	3	3			●		
CSC	153	C# Programming	2	3	3		○		○	
CSC	253	Adv C# Programming	2	3	3			○		
DBA	115	Database Applications	2	2	3		○	●		
DBA	120	Database Programming I	2	2	3		●			
DBA	220	Oracle DB Programming II	2	2	3			●		
CSC	152	SAS	2	3	3			●		

Web and Game Development

WEB 110	Internet/Web Fundamentals	2 2 3		○	○	●	○			
WEB 115	Web Markup and Scripting	2 2 3				●				
WEB 140	Web Development Tools	2 2 3				●				
SGD 111	Introduction to SGD	2 3 3								
SGD 113	SGD Programming	2 3 3								
SGD 114	3D Modeling	2 3 3								

Required Courses Credit Hours	58
Major Electives Credit Hours	6
Humanities Elective Credit Hours	3
Social Science Elective Credit Hours	3
Total Semester Hours Required for A.A.S. Degree	70

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY CRIMINAL JUSTICE TECHNOLOGY (A55180) Associate Degree Day & Evening Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Credit	Grade	Semester	Remarks
5 Semesters									
FALL SEMESTER, 2008									
ACA	111	College Student Success	1	0	1				
CJC	111	Introduction to Criminal Justice	3	0	3				
CJC	112	Criminology	3	0	3				
CJC	121	Law Enforcement Operations	3	0	3				
ENG	111	Expository Writing*	3	0	3				
		Major Elective			3				
SPRING SEMESTER, 2009									
CJC	132	Court Procedure and Evidence**	3	0	3				
CJC	141	Corrections	3	0	3				
CJC	231	Constitutional Law**	3	0	3				
CJC	215	Organization and Administration	3	0	3				
ENG	112	Argument Based Research	3	0	3				
SUMMER TERM, 2009									
PSY	150	General Psychology	3	0	3				
		Humanities Elective							
		Social Sciences Elective							
		Major Elective			3				
FALL SEMESTER, 2009									
CJC	114	Investigative Photography	1	2	2				
CJC	122	Community Policing	3	0	3				
CJC	212	Ethics and Community Relations	3	0	3				
CJC	222	Criminalistics	3	0	3				
SPRING SEMESTER, 2010									
CJC	113	Juvenile Justice	3	0	3				
CJC	131	Criminal Law**	3	0	3				
CJC	213	Substance Abuse	3	0	3				
CJC	221	Investigative Principles**	3	2	4				
MAT		Math Elective			3				
Required Courses Credit Hours					64				
Humanities Elective Credit Hours					3				
Social Sciences Elective Credit Hours					3				
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE					70				
(Over)									

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be

required based on placement test results.

Math Elective. Choose at least 3 hours from among the following:

MAT 115; MAT 121; MAT 140 and MAT 140 A; MAT 161and MAT 161 A; MAT 171and MAT 171 A

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Major Electives: CIS 110, CJC 211, CJC 214, CJC 225**, CJC 232, CJC 241, COM 231, EDU 131, EDU 146, SPA 120

MAJOR ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

**Students successfully completing a Basic Law Enforcement Training course accredited by the North Carolina Criminal Justice Education and Training Standards Commission and the North Carolina Sheriffs' Education and Training Standards Commission will receive credit for CJC 131, CJC 132, CJC 221, CJC 225, and CJC 231 toward the Associate in Applied Science degree in Criminal Justice Technology. Students must have successfully passed the Commissions' comprehensive certification examination. Students must have completed Basic Law Enforcement Training since 1985.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY Computer Programming Associate Degree (A25130)

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours		Credit	Grade	Semester Offered			Remarks
			Class	Lab			Fall 08	Spr09	Sum09	
ACA	111	College Student Success	1	0	1		○ ●	○ ●	○ ●	
General Education Courses										
ENG	111	Expository Writing*	3	0	3		○ ● ○	○ ● ○	○ ● ○	
ENG	112	Argument-Based Research	3	0	3		○ ● ○	○ ● ○	○ ● ○	
MAT	140	Survey of Mathematics*	3	0	3		○ ● ○	○ ●	○ ●	
MAT	140A	Survey of Mathematics Lab	0	2	1		○ ● ○	○ ●	○ ●	
COM	231	Public Speaking	3	0	3		○ ● ○	○ ● ○	○ ● ○	
		Social Science Elective			3		○ ● ○	○ ● ○	○ ● ○	
		Humanities Elective			3		○ ● ○	○ ● ○	○ ● ○	
Technical Core Courses										
BUS	110	Introduction to Business	3	0	3		○ ● ○	○ ● ○	○ ●	
CIS	110	Introduction to Computers	2	2	3		○ ● ○	○ ● ○	○ ●	
CIS	115	Intro to Prog & Logic	2	3	3		○ ●	○ ●	○	
DBA	110	Database Concepts	2	3	3		○ ●	● ○	○	
NET	125	Networking Basics	1	4	3		○ ●	○	○ ●	
NOS	110	Operating System Concepts	2	3	3		○ ●	○ ●	○	
SEC	110	Security Concepts	3	0	3		○ ●	○ ●	○	
Computer Programming										
Select one Operating System course for 3 credits										
NOS	120	Linux/UNIX Single User	2	2	3		○ ●	○ ●	●	
NOS	130	Windows Single User	2	2	3		○ ●	○ ●		
Select two Programming courses for 6 credits										
CSC	139	Visual BASIC Prog	2	3	3			●		
CSC	151	JAVA Programming	2	3	3		●			
CSC	153	C# Programming	2	3	3		○			
Select two Advanced Programming courses for 6 credits										
CSC	239	Adv Visual BASIC Prog	2	3	3		●			
CSC	251	Adv JAVA Programming	2	3	3			●		
CSC	253	Adv C# Programming	2	3	3			○		
CTS	285	Systems Analysis & Design	3	0	3		○			
CSC	289	Programming Capstone Proj	1	4	3			○		
COE	110	World of Work	1	0	1		○	○		
COE	111	Co-op Work Experience I	0	10	1		○	○		
		Major Elective I			3					
		Major Elective II			3					

Total Semester Hours Required for A.A.S. Degree

70

○ Day ● Evening ○ Online

Major Electives -- Select 6 credit hours from one of the two groups below without repeating any required course on page 1.

Course Title	Class	Hours Lab Credit	Semester Offered			Remarks	
			Grade	Fall 08	Spr09		Sum09
Programming and Databases							
CSC 134	C++ Programming	2 3 3		○			
CSC 139	Visual BASIC Prog	2 3 3		○	●	●	
CSC 239	Adv Visual BASIC Prog	2 3 3		●			
CSC 151	JAVA Programming	2 3 3		●			
CSC 251	Adv JAVA Programming	2 3 3			●		
CSC 153	C# Programming	2 3 3		○		○	
CSC 253	Adv C# Programming	2 3 3			○		
DBA 115	Database Applications	2 2 3		○	●		
DBA 120	Database Programming I	2 2 3		●			
DBA 220	Oracle DB Programming II	2 2 3			●		
CSC 152	SAS	2 3 3			●		

Web and Game Development

WEB 110	Internet/Web Fundamentals	2 2 3		○	○	●	○	
WEB 115	Web Markup and Scripting	2 2 3			●			
WEB 140	Web Development Tools	2 2 3			●			
SGD 111	Introduction to SGD	2 3 3						
SGD 113	SGD Programming	2 3 3						
SGD 114	3D Modeling	2 3 3						

Required Courses Credit Hours	58
Major Electives Credit Hours	6
Humanities Elective Credit Hours	3
Social Science Elective Credit Hours	3
Total Semester Hours Required for A.A.S. Degree	70

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2006

PLAN OF STUDY
Computer Programming
Visual C# Option (C25130CS)
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
CIS	110	Introduction to Computers	2	2	3			
CIS	115	Intro to Prog & Logic	2	3	3			
DBA	110	Database Concepts	2	3	3			
CSC	153	C# Programming	2	3	3			
CSC	253	Adv C# Programming	2	3	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2006

PLAN OF STUDY
Computer Programming
Visual C# Option (C25130CS)
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
CIS	110	Introduction to Computers	2	2	3			
CIS	115	Intro to Prog & Logic	2	3	3			
DBA	110	Database Concepts	2	3	3			
CSC	153	C# Programming	2	3	3			
CSC	253	Adv C# Programming	2	3	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring Semester 2006	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY Computer Programming Database Programming Option (C25130DB) Certificate	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
CIS	110	Introduction to Computers	2	2	3			
CIS	115	Intro to Prog & Logic	2	3	3			
DBA	110	Database Concepts	2	3	3			
DBA	120	Database Programming I	2	2	3			
DBA	220	Oracle DB Programming II	2	2	3			
CSC	152	SAS	2	3	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2006

PLAN OF STUDY
Computer Programming
JAVA Option (C25130J)
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
CIS	110	Introduction to Computers	2	2	3			
CIS	115	Intro to Prog & Logic	2	3	3			
DBA	120	Database Programming I	2	2	3			
CSC	151	JAVA Programming	2	3	3			
CSC	251	Adv JAVA Programming	2	3	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring Semester 2006	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY Computer Programming Visual BASIC Option (C25130VB) Certificate	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
CIS	110	Introduction to Computers	2	2	3			
CIS	115	Intro to Prog & Logic	2	3	3			
DBA	110	Database Concepts	2	3	3			
CSC	139	Visual BASIC Prog	2	3	3			
CSC	239	Adv Visual BASIC Prog	2	3	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY Computer Programming Associate Degree (A25130)

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours		Credit	Grade	Semester Offered			Remarks
			Class	Lab			Fall 08	Spr09	Sum09	
ACA	111	College Student Success	1	0	1		○ ●	○ ●	○ ●	
General Education Courses										
ENG	111	Expository Writing*	3	0	3		○ ● ○	○ ● ○	○ ● ○	
ENG	112	Argument-Based Research	3	0	3		○ ● ○	○ ● ○	○ ● ○	
MAT	140	Survey of Mathematics*	3	0	3		○ ● ○	○ ●	○ ●	
MAT	140A	Survey of Mathematics Lab	0	2	1		○ ● ○	○ ●	○ ●	
COM	231	Public Speaking	3	0	3		○ ● ○	○ ● ○	○ ● ○	
		Social Science Elective			3		○ ● ○	○ ● ○	○ ● ○	
		Humanities Elective			3		○ ● ○	○ ● ○	○ ● ○	
Technical Core Courses										
BUS	110	Introduction to Business	3	0	3		○ ● ○	○ ● ○	○ ●	
CIS	110	Introduction to Computers	2	2	3		○ ● ○	○ ● ○	○ ●	
CIS	115	Intro to Prog & Logic	2	3	3		○ ●	○ ●	○	
DBA	110	Database Concepts	2	3	3		○ ●	● ○	○	
NET	125	Networking Basics	1	4	3		○ ●	○	○ ●	
NOS	110	Operating System Concepts	2	3	3		○ ●	○ ●	○	
SEC	110	Security Concepts	3	0	3		○ ●	○ ●	○	
Computer Programming										
Select one Operating System course for 3 credits										
NOS	120	Linux/UNIX Single User	2	2	3		○ ●	○ ●	●	
NOS	130	Windows Single User	2	2	3		○ ●	○ ●		
Select two Programming courses for 6 credits										
CSC	139	Visual BASIC Prog	2	3	3			●		
CSC	151	JAVA Programming	2	3	3		●			
CSC	153	C# Programming	2	3	3		○			
Select two Advanced Programming courses for 6 credits										
CSC	239	Adv Visual BASIC Prog	2	3	3		●			
CSC	251	Adv JAVA Programming	2	3	3			●		
CSC	253	Adv C# Programming	2	3	3			○		
CTS	285	Systems Analysis & Design	3	0	3		○			
CSC	289	Programming Capstone Proj	1	4	3			○		
COE	110	World of Work	1	0	1		○	○		
COE	111	Co-op Work Experience I	0	10	1		○	○		
		Major Elective I			3					
		Major Elective II			3					

Total Semester Hours Required for A.A.S. Degree

70

○ Day ● Evening ○ Online

Major Electives -- Select 6 credit hours from one of the two groups below without repeating any required course on page 1.

Course Title	Class	Hours Lab Credit	Semester Offered			Remarks	
			Grade	Fall 08	Spr09		Sum09
Programming and Databases							
CSC 134	C++ Programming	2 3 3		○			
CSC 139	Visual BASIC Prog	2 3 3		○	●	●	
CSC 239	Adv Visual BASIC Prog	2 3 3		●			
CSC 151	JAVA Programming	2 3 3		●			
CSC 251	Adv JAVA Programming	2 3 3			●		
CSC 153	C# Programming	2 3 3		○		○	
CSC 253	Adv C# Programming	2 3 3			○		
DBA 115	Database Applications	2 2 3		○	●		
DBA 120	Database Programming I	2 2 3		●			
DBA 220	Oracle DB Programming II	2 2 3			●		
CSC 152	SAS	2 3 3			●		

Web and Game Development

WEB 110	Internet/Web Fundamentals	2 2 3		○	○	●	○	
WEB 115	Web Markup and Scripting	2 2 3			●			
WEB 140	Web Development Tools	2 2 3			●			
SGD 111	Introduction to SGD	2 3 3						
SGD 113	SGD Programming	2 3 3						
SGD 114	3D Modeling	2 3 3						

Required Courses Credit Hours	58
Major Electives Credit Hours	6
Humanities Elective Credit Hours	3
Social Science Elective Credit Hours	3
Total Semester Hours Required for A.A.S. Degree	70

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY

CLINICAL TRIALS RESEARCH ASSOCIATE (A45190)

Effective Fall Semester
2008-2009

Associate Degree
Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Clinical	Credit	Grade	Semester	Remarks
		Lab						
7 Semesters								
FALL SEMESTER, 2008								
ACA 111	College Student Success	1	0	0	1			
BIO 168	Anatomy & Physiology I	3	3	0	4			
CTR 110	Introduction to Clinical Research	3	0	0	3			
ENG 111	Expository Writing*	3	0	0	3			
SPRING SEMESTER, 2009								
BIO 169	Anatomy & Physiology II	3	3	0	4			
CTR 115	Clinical Research Regulations	3	0	0	3			
MAT 151	Statistics I*	3	0	0	3			
SUMMER TERM, 2009								
CIS 110	Introduction to Computers	2	2	0	3			
CTR 112	Clinical Research Terminology	3	0	0	3			
ENG 112	Argument-Based Research	3	0	0	3			
FALL SEMESTER, 2009								
BIO 271	Pathophysiology	3	0	0	3			
CTR 130	Clinical Research Management	4	0	0	4			
CTR 220	Research Site Management	3	0	0	3			
SPRING SEMESTER, 2010								
CTR 120	Research Protocol Design	3	0	0	3			
CTR 150	Research Fieldwork I	0	0	15	5			
PHM 120	Pharmacology I	3	0	0	3			
SUMMER TERM, 2010								
CTR 210	Research Data and Reports	3	0	0	3			
PHI 240	Introduction to Ethics	3	0	0	3			
PHM 125	Pharmacology II	3	0	0	3			

(Over)

FALL SEMESTER, 2010

CTR	250	Research Fieldwork II	0	0	24	8
CTR	281	Trends in Clinical Research	3	0	0	3
SOC	225	Social Diversity	3	0	0	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE **74**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement tests.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY

CLINICAL TRIALS RESEARCH ASSOCIATE (A45190)

Effective Fall Semester
2008-2009

Associate Degree
Day Program (Spring Admission)

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours					Grade	Semester	Remarks
	Class	Lab	Clinical	Credit				
7 Semesters								
SPRING SEMESTER, 2009								
ACA 111	College Student Success	1	0	0	1			
BIO 168	Anatomy & Physiology I	3	3	0	4			
CTR 110	Introduction to Clinical Research	3	0	0	3			
ENG 111	Expository Writing*	3	0	0	3			
SUMMER TERM, 2009								
BIO 169	Anatomy & Physiology II	3	3	0	4			
CTR 115	Clinical Research Regulations	3	0	0	3			
MAT 151	Statistics I*	3	0	0	3			
FALL SEMESTER, 2009								
CIS 110	Introduction to Computers	2	2	0	3			
CTR 112	Clinical Research Terminology	3	0	0	3			
ENG 112	Argument-Based Research	3	0	0	3			
SPRING SEMESTER, 2010								
BIO 271	Pathophysiology	3	0	0	3			
CTR 130	Clinical Research Management	4	0	0	4			
CTR 220	Research Site Management	3	0	0	3			
SUMMER TERM, 2010								
CTR 150	Research Fieldwork I	0	0	15	5			
CTR 210	Research Data and Reports	3	0	0	3			
PHM 120	Pharmacology I	3	0	0	3			
FALL SEMESTER, 2010								
CTR 120	Research Protocol Design	3	0	0	3			
PHI 240	Introduction to Ethics	3	0	0	3			
PHM 125	Pharmacology II	3	0	0	3			

(Over)

SPRING SEMESTER, 2011

CTR	250	Research Fieldwork II	0	0	24	8
CTR	281	Trends in Clinical Research	3	0	0	3
SOC	225	Social Diversity	3	0	0	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE **74**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement tests.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY

Effective Fall Semester
2008-2009

CLINICAL TRIALS RESEARCH ASSOCIATE (A45190)

Associate Degree
Evening/Online Program (Fall Admission)

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours				Credit	Grade	Semester	Remarks
	Class	Lab	Clinical					
7 Semesters								
FALL SEMESTER, 2008								
ACA 111	College Student Success	1	0	0	1			
BIO 168	Anatomy & Physiology I	3	3	0	4			
CTR 110	Introduction to Clinical Research	3	0	0	3			
ENG 111	Expository Writing*	3	0	0	3			
SPRING SEMESTER, 2009								
BIO 169	Anatomy & Physiology II	3	3	0	4			
CTR 112	Clinical Research Terminology	3	0	0	3			
MAT 151	Statistics I*	3	0	0	3			
SUMMER TERM, 2009								
CIS 110	Introduction to Computers	2	2	0	3			
CTR 115	Clinical Research Regulations	3	0	0	3			
ENG 112	Argument-Based Research	3	0	0	3			
FALL SEMESTER, 2009								
BIO 271	Pathophysiology	3	0	0	3			
CTR 130	Clinical Research Management	4	0	0	4			
CTR 220	Research Site Management	3	0	0	3			
SPRING SEMESTER, 2010								
CTR 120	Research Protocol Design	3	0	0	3			
CTR 150	Research Fieldwork I	0	0	15	5			
PHM 120	Pharmacology I	3	0	0	3			
SUMMER TERM, 2010								
CTR 210	Research Data and Reports	3	0	0	3			
PHI 240	Introduction to Ethics	3	0	0	3			
PHM 125	Pharmacology II	3	0	0	3			

(Over)

FALL SEMESTER, 2010

CTR	250	Research Fieldwork II	0	0	24	8
CTR	281	Trends in Clinical Research	3	0	0	3
SOC	225	Social Diversity	3	0	0	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE **74**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement tests.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY CLINICAL TRIALS RESEARCH ASSOCIATE **Clinical Research – Level II Option (C45190II)**

Effective Fall Semester
2008-2009

Certificate
Day Program (Spring Admission)

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Credit	Grade	Semester	Remarks
	Class	Lab	Clinical				
4 Semesters							
SPRING SEMESTER, 2009							
CTR 130 Clinical Research Management	4	0	0	4			
SUMMER TERM, 2009							
CTR 210 Research Data and Reports	3	0	0	3			
FALL SEMESTER, 2009							
CTR 120 Research Protocol Design	3	0	0	3			
SPRING SEMESTER, 2010							
CTR 281 Trends in Clinical Research	3	0	0	3			
SOC 225 Social Diversity	3	0	0	3			
TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE				16			

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

NOTE: Students are eligible to enroll in the Clinical Research Certificate – Level II who have completed Clinical Research Certificate - Level I, or who have two years work experience in the Clinical Research field.

Revised Spring Semester 2008	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY CLINICAL TRIALS RESEARCH ASSOCIATE Clinical Research – Level I Option (C45190I) Certificate Day Program (Spring Admission)	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Credit	Grade	Semester	Remarks
			Class	Lab	Clinical				
4 Semesters									
SPRING SEMESTER, 2009									
CTR	110	Introduction to Clinical Research	3	0	0	3			
SUMMER TERM, 2009									
CTR	115	Clinical Research Regulations	3	0	0	3			
MAT	151	Statistics I*	3	0	0	3			
FALL SEMESTER, 2009									
CTR	112	Clinical Research Terminology	3	0	0	3			
PHI	240	Introduction to Ethics	3	0	0	3			
SPRING SEMESTER, 2010									
CTR	220	Research Site Management	3	0	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE **18**

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement tests. Students must demonstrate computer competency by a satisfactory score on the computer competency test, by credit by exam, by transfer credit, or by completing CIS 110.

NOTE: Students are eligible to enroll in the Clinical Research - Level I Certificate who have completed a baccalaureate or graduate degree in biological science, chemistry, or an allied health area, or who have completed one year of employment in the clinical research field within the last five years.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY CLINICAL TRIALS RESEARCH ASSOCIATE Clinical Research – Level I Option (C45190I)

Effective Fall Semester
2008-2009

Certificate
Evening/Online Program (Fall Admission)

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Credit	Grade	Semester	Remarks
			Class	Lab	Clinical				
4 Semesters									
FALL SEMESTER, 2008									
CTR	110	Introduction to Clinical Research	3	0	0	3			
SPRING SEMESTER, 2009									
CTR	112	Clinical Research Terminology	3	0	0	3			
MAT	151	Statistics I*	3	0	0	3			
SUMMER TERM, 2009									
CTR	115	Clinical Research Regulations	3	0	0	3			
PHI	240	Introduction to Ethics	3	0	0	3			
FALL SEMESTER, 2009									
CTR	220	Research Site Management	3	0	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement tests. Students must demonstrate computer competency by a satisfactory score on the computer competency test, by credit by exam, by transfer credit, or by completing CIS 110.

NOTE: Students are eligible to enroll in the Clinical Research - Level I Certificate who have completed a baccalaureate or graduate degree in biological science, chemistry, or an allied health area, or who have completed one year of employment in the clinical research field within the last five years.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY CLINICAL TRIALS RESEARCH ASSOCIATE Clinical Research – Level II Option (C45190II)

Effective Fall Semester
2008-2009

Certificate
Evening/Online Program (Fall Admission)

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab	Clinical				
4 Semesters							
FALL SEMESTER, 2008							
CTR 130	Clinical Research Management	4	0	0	4		
SPRING SEMESTER, 2009							
CTR 120	Research Protocol Design	3	0	0	3		
SUMMER TERM, 2009							
CTR 210	Research Data and Reports	3	0	0	3		
FALL SEMESTER, 2009							
CTR 281	Trends in Clinical Research	3	0	0	3		
SOC 225	Social Diversity	3	0	0	3		
TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE					16		

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

NOTE: Students are eligible to enroll in the Clinical Research Certificate – Level II who have completed Clinical Research Certificate - Level I, or who have two years work experience in the Clinical Research field.

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New Summer Term-2006

DURHAM TECHNICAL COMMUNITY COLLEGE

PLAN OF STUDY

Effective Summer 2008-2009

CLINICAL TRIALS RESEARCH ASSOCIATE

Clinical Research – Data Management (C45190MC)**Certificate**

Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours				Grade	Semester	Remarks
			Class	Lab	Clinical	Credit			
4 Semesters									
SUMMER TERM									
CTR	210	Research Data and Reports	3	0	0	3			
DBA	110	Database Concepts	2	3	0	3			
FALL SEMESTER									
CTR	215	Data Management Concepts	2	0	0	2			
DBA	120	Database Programming	2	2	0	3			
SPRING SEMESTER									
CTR	225	Data Collection	1	2	0	2			
CSC	152	SAS	2	3	0	3			
SUMMER TERM									
CTR	230	Data Trends and Reporting	1	2	0	2			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE**18**

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement tests.

NOTE: Students are eligible to enroll in the Clinical Data Management Certificate who have completed a baccalaureate or graduate degree in computer information systems, biological science, chemistry, or an allied health area. Students must demonstrate computer competency by a satisfactory score on the computer competency test, by credit by exam, by transfer credit, or by completing CIS 110.

DURHAM TECHNICAL COMMUNITY COLLEGE
 Revised Fall Semester PLAN OF STUDY Effective Fall Semester
 2003-2004 CLINICAL TRIALS RESEARCH ASSOCIATE 2008-2009
Clinical Research – Level I Option (C45190I)
 Certificate
 Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Credit	Grade	Semester	Remarks
			Class	Lab	Clinical				
4 Semesters									
FALL SEMESTER, 2008									
CTR	110	Introduction to Clinical Research	3	0	0	3			
SPRING SEMESTER, 2009									
CTR	115	Clinical Research Regulations	3	0	0	3			
MAT	151	Statistics I*	3	0	0	3			
SUMMER TERM, 2009									
CTR	112	Clinical Research Terminology	3	0	0	3			
PHI	240	Introduction to Ethics	3	0	0	3			
FALL SEMESTER, 2009									
CTR	220	Research Site Management	3	0	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement tests. Students must demonstrate computer competency by a satisfactory score on the computer competency test, by credit by exam, by transfer credit, or by completing CIS 110.

NOTE: Students are eligible to enroll in the Clinical Research - Level I Certificate who have completed a baccalaureate or graduate degree in biological science, chemistry, or an allied health area, or who have completed one year of employment in the clinical research field within the last five years.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2006

PLAN OF STUDY CLINICAL TRIALS RESEARCH ASSOCIATE Clinical Research – Level II Option (C45190II)

Effective Fall Semester
2008-2009

Certificate
Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab	Clinical				
4 Semesters							
FALL SEMESTER, 2008							
CTR 130	Clinical Research Management	4	0	0	4		
SPRING SEMESTER, 2009							
CTR 120	Research Protocol Design	3	0	0	3		
SUMMER TERM, 2009							
CTR 210	Research Data and Reports	3	0	0	3		
FALL SEMESTER, 2009							
CTR 281	Trends in Clinical Research	3	0	0	3		
SOC 225	Social Diversity	3	0	0	3		
TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE					16		

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

NOTE: Students are eligible to enroll in the Clinical Research Certificate – Level II who have completed Clinical Research Certificate - Level I, or who have two years work experience in the Clinical Research field.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2007

**PLAN OF STUDY
BUSINESS ADMINISTRATION
HUMAN RESOURCES Option (C25120H)
Certificate**

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
BUS	110	Introduction to Business*	3	0	3			
BUS	255	Organizational Behavior in Business	3	0	3			
BUS	153	Human Resource Management	3	0	3			
BUS	234	Training and Development	3	0	3			
BUS	235	Performance Management	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY

Effective Fall Semester

DENTAL LABORATORY TECHNOLOGY (A45280)

2008-2009

Associate Degree
Day Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Grade	Semester	Remarks
				Lab	Credit			
5 Semesters								
FALL SEMESTER, 2008								
DLT	111	Dental Anatomy/Physiology	3	6	5			
DLT	114	Dental Materials	1	6	3			
DLT	116	Complete Dentures	1	9	4			
ACA	111	College Student Success	1	0	1			
ENG	111	Expository Writing*	3	0	3			
PHS	121	Applied Physical Science I	3	2	4			
SPRING SEMESTER, 2009								
DLT	123	Crown & Bridge	2	12	6			
DLT	211	Advanced Complete Dentures	2	12	6			
MAT	115	Mathematical Models*	2	2	3			
		Social Science Elective						
SUMMER TERM, 2009								
DLT	119	Wrought-Ortho Appliances	1	9	4			
DLT	126	Advanced Crown & Bridge	1	9	4			
		Humanities Elective						
FALL SEMESTER, 2009								
CIS	113	Computer basics	0	2	1			
DLT	118	Cast Partial Dentures	3	9	6			
DLT	217	Ceramic Techniques	2	9	5			
DLT	219	Jurisprudence & Ethics	1	0	1			
ENG	112	Argument-Based Research	3	0	3			
SPRING SEMESTER, 2009								
DLT	215	Advanced Partial Dentures	1	6	3			
DLT	222	Advanced Ceramic Techniques	2	9	5			
DLT	224	Dental Lab Practice	0	20	2			

Required Courses Credit Hours	69
Humanities Elective Credit Hours	3
Social Sciences Elective Credit Hours	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 75

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 1997-98	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY DENTAL LABORATORY TECHNOLOGY Cast Partial Denture Techniques Option (C45280P) Certificate Day Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
2 Semesters							
FALL SEMESTER, 2008							
DLT 114	Dental Materials	1	6	3			
DLT 118	Cast Partial Dentures	3	9	6			
SPRING SEMESTER, 2009							
DLT 215	Advanced Partial Dentures	1	6	3			
TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE				12			

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 1997-98	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY DENTAL LABORATORY TECHNOLOGY Complete Denture Techniques Option (C45280T) Certificate Day Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours Lab	Credit	Grade	Semester	Remarks
2 Semesters						
FALL SEMESTER, 2008						
DLT 114 Dental Materials	1	6	3			
DLT 116 Complete Dentures	1	9	4			
SPRING SEMESTER, 2009						
DLT 211 Advanced Complete Dentures	2	12	6			
TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE				13		

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 1997-98	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY DENTAL LABORATORY TECHNOLOGY Crown & Bridge Techniques Option (C45280B) Certificate Day Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours Lab	Credit	Grade	Semester	Remarks
3 Semesters						
FALL SEMESTER, 2008						
DLT 111 Dental Anatomy/Physiology	3	6	5			
DLT 114 Dental Materials	1	6	3			
SPRING SEMESTER, 2009						
DLT 123 Crown and Bridge	2	12	6			
SUMMER TERM, 2009						
DLT 126 Advanced Crown and Bridge	1	9	4			
TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE				18		

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Fall Semester 2002-2003	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY DENTAL LABORATORY TECHNOLOGY Dental Ceramic Techniques Option (C45280C) Certificate Day Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours Lab	Credit	Grade	Semester	Remarks
2 Semesters						
FALL SEMESTER, 2008						
DLT 114 Dental Materials	1	6	3			
DLT 217 Ceramic Techniques	2	9	5			
PHS 121 Applied Physical Science I	3	2	4			
SPRING SEMESTER, 2009						
DLT 222 Advanced Ceramic Techniques	2	9	5			

Note: Students must complete Crown and Bridge Certificate before enrolling in the Dental Ceramic Techniques Certificate.

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 17

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 1997-98	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY DENTAL LABORATORY TECHNOLOGY Crown & Bridge Techniques Option (C45280B) Certificate Day Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours Lab	Credit	Grade	Semester	Remarks
3 Semesters						
FALL SEMESTER, 2008						
DLT 111 Dental Anatomy/Physiology	3	6	5			
DLT 114 Dental Materials	1	6	3			
SPRING SEMESTER, 2009						
DLT 123 Crown and Bridge	2	12	6			
SUMMER TERM, 2009						
DLT 126 Advanced Crown and Bridge	1	9	4			
TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE				18		

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY

Effective Fall Semester

DENTAL LABORATORY TECHNOLOGY (A45280)

2008-2009

Associate Degree
Day Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Grade	Semester	Remarks
			Lab	Credit				
5 Semesters								
FALL SEMESTER, 2008								
DLT	111	Dental Anatomy/Physiology	3	6	5			
DLT	114	Dental Materials	1	6	3			
DLT	116	Complete Dentures	1	9	4			
ACA	111	College Student Success	1	0	1			
ENG	111	Expository Writing*	3	0	3			
PHS	121	Applied Physical Science I	3	2	4			
SPRING SEMESTER, 2009								
DLT	123	Crown & Bridge	2	12	6			
DLT	211	Advanced Complete Dentures	2	12	6			
MAT	115	Mathematical Models*	2	2	3			
		Social Science Elective						
SUMMER TERM, 2009								
DLT	119	Wrought-Ortho Appliances	1	9	4			
DLT	126	Advanced Crown & Bridge	1	9	4			
		Humanities Elective						
FALL SEMESTER, 2008								
CIS	113	Computer basics	0	2	1			
DLT	118	Cast Partial Dentures	3	9	6			
DLT	217	Ceramic Techniques	2	9	5			
DLT	219	Jurisprudence & Ethics	1	0	1			
ENG	112	Argument-Based Research	3	0	3			
SPRING SEMESTER, 2009								
DLT	215	Advanced Partial Dentures	1	6	3			
DLT	222	Advanced Ceramic Techniques	2	9	5			
DLT	224	Dental Lab Practice	0	20	2			

Required Courses Credit Hours	69
Humanities Elective Credit Hours	3
Social Sciences Elective Credit Hours	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 75

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2006

PLAN OF STUDY EARLY CHILDHOOD EDUCATION **Child Care Administration and Management Option (C55220A)** Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
2 Semesters*							
FALL SEMESTER, 2008							
BUS 110	Introduction to Business	3	0	3			
EDU 161	Introduction to Exceptional Child	3	3	4			
EDU 261	Early Childhood Administration I	3	0	3			
SPRING SEMESTER, 2009							
EDU 234	Infants, Toddlers, & Twos	3	0	3			
EDU 262	Early Childhood Administration II	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 16

*ENG 070, ENG 080, ENG 090, ENG 090A, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2007

PLAN OF STUDY EARLY CHILDHOOD EDUCATION **Child Development Option (C55220C)** Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					

2 Semesters*

FALL SEMESTER, 2008

EDU 119	Intro to Early Childhood Ed	4	0	4			
EDU 153	Health, Safety & Nutrition	3	0	3			
EDU 234	Infants, Toddlers & Twos	3	0	3			

SPRING SEMESTER, 2009

EDU 131	Child, Family, & Community	3	0	3			
EDU 161	Introduction to Exceptional Child	3	3	4			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 17

*ENG 070, ENG 080, ENG 090, ENG 090A, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY EARLY CHILDHOOD EDUCATION (A55220)

Effective Fall Semester
2008-2009

Associate Degree
Afternoon/Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Credit	Grade	Semester	Remarks
				Lab					
5 Semesters									
FALL SEMESTER, 2008									
ACA	111	College Student Success	1	0	1				
EDU	119	Intro to Early Childhood Education	4	0	4				
EDU	144	Child Development I	3	0	3				
EDU	234	Infants, Toddlers, and Twos	3	0	3				
ENG	111	Expository Writing*	3	0	3				
MAT	115	Mathematical Models*	2	2	3				
SPRING SEMESTER, 2009									
EDU	131	Child, Family, & Community	3	0	3				
EDU	145	Child Development II	3	0	3				
EDU	146	Child Guidance	3	0	3				
EDU	280	Language and Literacy Experiences	3	0	3				
ENG	112	Argument-Based Research	3	0	3				
		Major Elective			2				
SUMMER TERM, 2009									
CIS	113	Computer Basics	0	2	1				
EDU	161	Introduction to Exceptional Child	3	3	4				
EDU	221	Children with Exceptionalities	3	0	3				
EDU	261	Early Childhood Administration I	3	0	3				
SOC	220	Social Problems	3	0	3				
		Humanities Elective			3				
FALL SEMESTER, 2009									
EDU	151	Creative Activities	3	0	3				
EDU	151A	Creative Activities Lab	0	2	1				
EDU	153	Health, Safety & Nutrition	3	0	3				
EDU	262	Early Childhood Administration II	3	0	3				
EDU	271	Educational Technology	3	0	3				
		Social Science Elective			3				

(Over)

SPRING SEMESTER, 2010

COE 111	Co-op Work Experience I	0	10	1			
EDU 154	Social /Emotional/Behavioral Development	3	0	3			
EDU 162	Early Exp./Prosp. Teachers	1	2	2			

Required Courses Credit Hours **65**

Humanities Elective Credit Hours **3**

Major Elective Credit Hours **2**

Social Science Elective Credit Hours **3**

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE **73**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Major Electives: BUS 110, BUS 151, BUS 261, EDU 113, EDU 152, EDU 172, EDU 241, EDU 250, EDU 288, HEA 112,

MAJOR ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revise Fall Semester
2007

PLAN OF STUDY EARLY CHILDHOOD EDUCATION Infant/Toddler Care Certificate (C55290)

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					

2 Semesters*

FALL SEMESTER, 2008

EDU 119	Intro to Early Childhood Ed	4	0	4			
EDU 144	Child Development I	3	0	3			
EDU 153	Health, Safety, and Nutrition	3	0	3			

SPRING SEMESTER, 2009

EDU 131	Child, Family, and Community	3	0	3			
EDU 234	Infant, Toddlers, and Twos	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 16

*ENG 070, ENG 080, ENG 090, ENG 090A, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring Semester 2007-2008	Durham Technical Community College Plan of Study Environment, Health, and Safety Technology Associate Degree (A50160) Evening and Distance Learning Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have advanced approval. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
6 Semesters						
FALL SEMESTER, 2008						
ACA 111	College Student Success	1	0	1		
ENG 111	Expository Writing *	3	0	3		
FIP 230	Chemistry of Hazardous Materials I	5	0	5		
MAT 121	Algebra/Trigonometry I *	2	2	3		
SPRING SEMESTER, 2009						
BIO 163	Basic Anatomy and Physiology	4	2	5		
ENG 112	Argument-Based Research	3	0	3		
FALL SEMESTER, 2009						
EHS 111	Occupational Safety and Eng.	5	0	5		
EHS 218	Occupational Ergonomics	3	0	3		
	Humanities Elective					
	Major Elective					
SPRING SEMESTER, 2010						
EHS 113	OSHA Electrical Safety	2	0	2		
EHS 114	OSHA Regulations	4	0	4		
ISC 115	Construction Safety	2	0	2		
	Social Science Elective					
	Major Elective					
FALL SEMESTER, 2010						
EHS 112	Industrial Hygiene	5	0	5		
EHS 212	Industrial Hygiene Sampling	3	2	4		
SPRING SEMESTER, 2011						
EHS 116	Environmental Management	4	0	4		
EHS 211	Environmental Health and Toxicology	5	0	5		
EHS 215	Incident Management	3	2	4		
Required Courses Credit Hours		58				
Humanities Elective Credit Hours		3				
Major Elective Credit Hours		6				
Social Science Elective Credit Hours		3				

Total Semester Hours Required for A.A.S. Degree 70

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ENG 135, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, ENG 272, ENG 273, ENG 274, FRE 111 and FRE 181, FRE 112 and FRE 182, FRE 211, GER 111 and GER 181, GER 112 and GER 182, HUM 110, HUM 115, HUM 121, MUS 110, MUS 213, PHI 215, PHI 240, REL 110, REL 211, SPA 111 and SPA 181, SPA 112 and SPA 182, SPA 211

HUMANITIES ELECTIVE:

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Major Electives: BUS 153, EHS 219, EPT 210, EPT 220, FIP 236, LEX 285, SPA 120

MAJOR ELECTIVES:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, HIS 115, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 118, PSY 150, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

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V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Notes

1. Students may elect to take CHM 131/131A as an automatic substitution for FIP 230
2. Students completing EHS 215 are eligible for OSHA HAZWOPER technician-level certification according to 29 CFR 1910.120(q)
3. Successful completion of the A.A.S. in Environment, Health, and Safety Technology may be used to fulfill the academic component of requirements for the designation as a Certified Safety Professional (CSP). See www.bcsp.org for details.

Revised Fall Semester 2006-2007	Durham Technical Community College Plan of Study Environment, Health, And Safety Technology Environmental Management Option (C50160M) Certificate Evening and Distance Learning Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have advanced approval. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
2 Semesters						
FALL SEMESTER, 2008						
FIP 230	Chemistry of Hazardous Materials I	5	0	5		
SPRING SEMESTER, 2009						
EHS 116	Environmental Management	4	0	4		
EHS 211	Environmental Health and Toxicology	5	0	5		
EHS 215	Incident Management	3	2	4		
Total Semester Hours Required for Certificate				18		

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Fall Semester 2006-2007	Durham Technical Community College Plan of Study Environment, Health, And Safety Technology Occupational Health Option (C50160H) Certificate Evening and Distance Learning Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have advanced approval. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
2 Semesters						
FALL SEMESTER, 2008						
EHS 112 Industrial Hygiene	5	0	5			
EHS 212 Industrial Hygiene Sampling	3	2	4			
SPRING SEMESTER, 2009						
EHS 116 Environmental Management	4	0	4			
EHS 211 Environmental Health and Toxicology	5	0	5			
Total Semester Hours Required for Certificate			18			

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Fall Semester 2007-2008	Durham Technical Community College Plan of Study Environment, Health, And Safety Technology Occupational Safety Option (C50160D) Certificate Evening and Distance Learning Program	Effective Fall Semester 2009-2010
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have advanced approval. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
2 Semesters						
FALL SEMESTER, 2009						
EHS 111 Occupational Safety and Engineering	5	0	5			
EHS 218 Occupational Ergonomics	3	0	3			
SPRING SEMESTER, 2010						
EHS 113 OSHA Electrical Safety	2	0	2			
EHS 114 OSHA Regulations	4	0	4			
ISC 115 Construction Safety	2	0	2			
Total Semester Hours Required for Certificate			16			

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2008-2009

PLAN OF STUDY ELECTRICAL/ELECTRONICS TECHNOLOGY (A35220)

Associate Degree

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
5 Semesters							
FALL SEMESTER, 2008							
ACA 111	College Student Success	1	0	1			
DFT 115	Architectural Drafting	1	2	2			
ELC 112	DC/AC Electricity	3	6	5			
ELC 118	National Electrical Code	1	2	2			
MAT 121	Algebra/Trigonometry*	2	2	3			
CIS 110	Introduction to Computers	2	2	3			
SPRING SEMESTER, 2009							
ELC 113	Basic Wiring I	2	6	4			
ELC 117	Motors & Controls	2	6	4			
ELC 135	Electrical Machines I	2	2	3			
ELC 213	Instrumentation	3	2	4			
ENG 111	Expository Writing*	3	0	3			
SUMMER TERM, 2009							
ELC 115	Industrial Wiring	2	6	4			
ELC 128	Introduction to PLC	2	3	3			
ELC 215	Electrical Maintenance	2	3	3			
FALL SEMESTER, 2009							
	Humanities elective	3	0	3			
ELC 228	PLC Applications	2	6	4			
ELN 133	Digital electronic	3	3	4			
PHY 110	Conceptual Physics	3	0	3			
PHY 110A	Conceptual Physics Lab	0	2	1			
SPRING SEMESTER, 2010							
ELN 229	Industrial Electronics	3	3	4			
	Social Science elective	3	0	3			
ENG 112	Argument-based Research	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 69

Graduation Requirement: Students must complete a Red Cross FIRST AID /Adult CPR course.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 70, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Elective

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, MUS 110, MUS 113, PHI 215, PHI 240, POR 211, REL 110, REL 211

Social Science Elective

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 1997-98	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY ELECTRICAL/ELECTRONICS TECHNOLOGY Construction Electrician Option (C35220B) Certificate Day and Evening Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
ELC 112 DC/AC Electricity	3	6	5			
ELC 113 Basic Wiring I	2	6	4			
ELC 115 Industrial Wiring	2	6	4			
ELC 118 National Electrical Code	1	2	2			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 1997-98	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY ELECTRICAL/ELECTRONICS TECHNOLOGY Control Electrician Option (C35220C) Certificate Day and Evening Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
ELC 112 DC/AC Electricity	3	6	5			
ELC 117 Motors & Controls	2	6	4			
ELC 128 Introduction to PLC	2	3	3			
ELC 213 Instrumentation	3	2	4			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 16

V.A. Students: An approval signature from the V.A. Office is required before registering. Some course may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY ELECTRICAL/ELECTRONICS TECHNOLOGY (D35220)

Effective Fall Semester
2008-2009

Diploma
Day Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Grade	Semester	Remarks
		Lab	Credit			
3 Semesters						
FALL SEMESTER, 2008						
DFT 115 Architectural Drafting	1	2	2			
ELC 112 DC/AC Electricity	3	6	5			
ELC 118 National Electrical Code	1	2	2			
ENG 111 Expository Writing*	3	0	3			
MAT 121 Algebra/Trigonometry	2	2	3			
SPRING SEMESTER, 2009						
ELC 113 Basic Wiring I	2	6	4			
ELC 117 Motors & Controls	2	6	4			
ELC 135 Electrical Machines I	2	2	3			
ELC 213 Instrumentation	3	2	4			
SUMMER TERM, 2009						
ELC 115 Industrial Wiring	2	6	4			
ELC 128 Introduction to PLC	2	3	3			
ELC 215 Electrical Maintenance	2	3	3			

TOTAL SEMESTER HOURS REQUIRED FOR DIPLOMA 40

Graduation Requirement: Students must complete a Red Cross FIRST AID /Adult CPR course.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 70, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY ELECTRICAL/ELECTRONICS TECHNOLOGY (D35220)

Effective Fall Semester
2008-2009

Diploma
Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours Lab	Credit	Grade	Semester	Remarks
6 Semesters						
FALL SEMESTER, 2008						
ELC 112 DC/AC Electricity	3	6	5			
ELC 113 Basic Wiring I	2	6	4			
MAT 121 Algebra/Trigonometry*	2	2	3			
SPRING SEMESTER, 2009						
ELC 115 Industrial Wiring	2	6	4			
ELC 117 Motors & Controls	2	6	4			
SUMMER TERM, 2009						
ELC 128 Introduction to PLC	2	3	3			
ENG 111 Expository Writing*	3	0	3			
FALL SEMESTER, 2009						
DFT 115 Architectural Drafting	1	2	2			
SPRING SEMESTER, 2010						
ELC 118 National Electrical Code	1	2	2			
ELC 135 Electrical Machines I	2	2	3			
SUMMER TERM, 2010						
ELC 213 Instrumentation	3	2	4			
ELC 215 Electrical Maintenance	2	3	3			
TOTAL SEMESTER HOURS REQUIRED FOR DIPLOMA			40			

Graduation Requirement: Students must complete a Red Cross FIRST AID /Adult CPR course.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2008-2009

PLAN OF STUDY ELECTRICAL/ELECTRONICS TECHNOLOGY (A35220) Associate Degree

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Credit	Grade	Semester	Remarks
		Lab					
5 Semesters							
FALL SEMESTER, 2008							
ACA 111	College Student Success	1	0	1			
DFT 115	Architectural Drafting	1	2	2			
ELC 112	DC/AC Electricity	3	6	5			
ELC 118	National Electrical Code	1	2	2			
MAT 121	Algebra/Trigonometry*	2	2	3			
CIS 110	Introduction to Computers	2	2	3			
SPRING SEMESTER, 2009							
ELC 113	Basic Wiring I	2	6	4			
ELC 117	Motors & Controls	2	6	4			
ELC 135	Electrical Machines I	2	2	3			
ELC 213	Instrumentation	3	2	4			
ENG 111	Expository Writing*	3	0	3			
SUMMER TERM, 2009							
ELC 115	Industrial Wiring	2	6	4			
ELC 128	Introduction to PLC	2	3	3			
ELC 215	Electrical Maintenance	2	3	3			
FALL SEMESTER, 2009							
	Humanities elective	3	0	3			
ELC 228	PLC Applications	2	6	4			
ELN 133	Digital electronic	3	3	4			
PHY 110	Conceptual Physics	3	0	3			
PHY 110A	Conceptual Physics Lab	0	2	1			
SPRING SEMESTER, 2010							
ELN 229	Industrial Electronics	3	3	4			
	Social Science elective	3	0	3			
ENG 112	Argument-based Research	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 69

Graduation Requirement: Students must complete a Red Cross FIRST AID /Adult CPR course.

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 70, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Elective

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, MUS 110, MUS 113, PHI 215, PHI 240, POR 211, REL 110, REL 211

Social Science Elective

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2002-2003

PLAN OF STUDY
ELECTRICAL/ELECTRONICS TECHNOLOGY
Maintenance Electrician Option (C35220M)

Effective Fall Semester
2008-2009

Certificate
Day and Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
ELC 112 DC/AC Electricity	3	6	5			
ELC 113 Basic Wiring I	2	6	4			
ELC 117 Motors & Controls	2	6	4			
ELC 215 Electrical Maintenance	2	3	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 16

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 2000-2001	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY ELECTRONICS ENGINEERING TECHNOLOGY Computer Repair Option (C40200R) Certificate Day and Evening Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
CET	111	Computer Upgrade and Repair I	2	3	3			
CET	211	Computer Upgrade and Repair II	2	3	3			
CIS	110	Introduction to Computers	2	2	3			
NET	125	Networking Basics	1	4	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 12

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2007

PLAN OF STUDY ELECTRONICS ENGINEERING TECHNOLOGY (A40200)

Effective Fall Semester
2008-2009

Associate Degree
Day and Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Lab	Hours		Credit	Grade	Semester	Remarks
6 Semesters								
FALL SEMESTER, 2008								
ACA 111	College Student Success	1	0	1				
CIS 110	Introduction to Computers	2	2	3				
EGR 131	Intro to Electronics Technology	1	2	2				
ELC 131	DC/AC Circuit Analysis	4	3	5				
MAT 121	Algebra/Trigonometry I*	2	2	3				
SPRING SEMESTER, 2009								
ELC 127	Software for Technicians	1	3	2				
ELN 131	Electronic Devices	3	3	4				
ENG 111	Expository Writing*	3	0	3				
MAT 122	Algebra/Trigonometry II	2	2	3				
SUMMER TERM, 2009								
ELN 132	Linear IC Applications	3	3	4				
ENG 112	Argument-Based Research	3	0	3				
MAT 145	Analytical Math	3	0	3				
FALL SEMESTER, 2009								
ELN 133	Digital Electronics	3	3	4				
ELN 234	Communication Systems	3	3	4				
PHY 110	Conceptual Physics	3	0	3				
PHY 110A	Conceptual Physics Lab	0	2	1				
	Humanities Elective							
SPRING SEMESTER, 2010								
CET 111	Computer Upgrade and Repair I	2	3	3				
ELN 232	Introduction to Microprocessors	3	3	4				
ELN 236	Fiber Optics and Lasers	3	2	4				
PSY 150	General Psychology	3	0	3				

(Over)

SUMMER TERM, 2010

CET	211	Computer Upgrade and Repair II	2	3	3
ELN	275	Troubleshooting	1	3	2
		Major Elective			

Required Courses Credit Hours	67
Humanities Elective Credit Hours	3
Major Elective Credit Hours	2
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE	72

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Major Elective: ELN 247, NET 125

MAJOR ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY

Effective Fall Semester

EMERGENCY PREPAREDNESS TECHNOLOGY (A55420)

2008-2009

Associate Degree

Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
5 Semesters								
FALL SEMESTER, 2008								
ACA	111	College Student Success	1	0	1			
ENG	111	Expository Writing*	3	0	3			
EPT	120	Sociology of Disaster	3	0	3			
FIP	228	Local Government Finance	3	0	3			
FIP	236	Emergency Management	3	0	3			
		Major Elective						
SPRING SEMESTER, 2009								
ENG	112	Argument-Based Research	3	0	3			
		or ENG 113 Literature-Based Research						
EPT	210	Disaster Response Operations and Management	3	0	3			
FIP	152	Fire Protection Law	3	0	3			
		Major Elective						
		Humanities Elective						
SUMMER TERM, 2009								
CIS	110	Introduction to Computers	2	2	3			
MAT	121	Algebra/Trigonometry I*	2	2	3			
POL	120	American Government	3	0	3			
FALL SEMESTER, 2009								
EPT	150	EMS Incident Management	2	2	3			
EPT	220	Terrorism and Emergency Management	3	0	3			
FIP	230	Chemistry of Hazardous Materials	5	0	5			
FIP	256	Municipal Public Relations	3	0	3			
FIP	276	Managing Fire Services	3	0	3			

(Over)

SPRING SEMESTER, 2009

EPT	275	Emergency Operations Center Management	3	0	3
FIP	164	OSHA Standards	3	0	3
FIP	240	Fire Service Supervision Major Elective	3	0	3

Required Courses Credit Hours	57
Major Elective Credit Hours	9
Humanities Elective Credit Hours	3
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE	69

Students will choose 9 semester hours credit from one of following three tracks to fulfill the major electives for the Emergency Preparedness Technology degree: Fire Protection Track, Criminal Justice Track, or Environment, Health and Safety Track.

Fire Protection Track:

FIP 124	Fire Prevention & Public Ed	3	0	3
FIP 220	Fire Fighting Strategies	3	0	3
FIP 244	Fire Protection Project	3	0	3
FIP 260	Fire Protection Planning	3	0	3

Criminal Justice Track:

CJC 111	Introduction to Criminal Justice	3	0	3
CJC 132	Court Procedure and Evidence	3	0	3
CJC 231	Constitutional Law	3	0	3

Environment, Health, and Safety Track

EHS 112	Industrial Hygiene	5	0	5
EHS 116	Environment Management	4	0	4
EHS 211	Environment Health and Toxicology	5	0	5

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY

Effective Fall Semester
2008-2009

FIRE PROTECTION TECHNOLOGY (A55240)

Associate Degree
Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Grade	Semester	Remarks
				Lab	Credit			
5 Semesters								
FALL SEMESTER, 2008								
ACA	111	College Student Success	1	0	1			
ENG	111	Expository Writing*	3	0	3			
FIP	120	Introduction to Fire Protection	3	0	3			
FIP	128	Detection and Investigation	3	0	3			
FIP	132	Building Construction	3	0	3			
FIP	236	Emergency Management	3	0	3			
SPRING SEMESTER, 2009								
ENG	112	Argument-Based Research	3	0	3			
FIP	124	Fire Prevention & Public Education	3	0	3			
FIP	220	Fire Fighting Strategies	3	0	3			
MAT	140	Survey of Mathematics	3	0	3			
MAT	140A	Survey of Mathematics Lab	0	2	1			
		Major Elective						
SUMMER TERM, 2009								
POL	120	American Government	3	0	3			
		Humanities Elective						
		Social Science Elective						
FALL SEMESTER, 2009								
FIP	228	Local Government Finance	3	0	3			
FIP	230	Chemistry of Hazardous Materials I	5	0	5			
FIP	244	Fire Protection Project	3	0	3			
FIP	256	Municipal Public Relations	3	0	3			
FIP	276	Managing Fire Services	3	0	3			

(Over)

SPRING SEMESTER, 2010

FIP	152	Fire Protection Law	3	0	3
FIP	232	Hydraulics and Water Distribution	2	2	3
FIP	240	Fire Service Supervision	3	0	3
FIP	248	Fire Service Personnel Administration	3	0	3
FIP	260	Fire Protection Planning	3	0	3

Required Courses Credit Hours	64
Humanities Elective Credit Hours	3
Social Science Elective Credit Hours	3
Major Elective Credit Hours	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 73

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Major Electives: CHM 131, COE 111, EMS 110, FIP 144, FIP 160, FIP 160A, FIP 180, FIP 188, FIP 221, FIP 224, FIP 264, FIP 268, FIP 272

MAJOR ELECTIVES:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2004-2005

PLAN OF STUDY
FIRE PROTECTION TECHNOLOGY
Fire Management Option (C55240M)

Effective Fall Semester
2008-2009

Certificate
Day or Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
2 Semesters						
FALL SEMESTER, 2008						
ENG 111	Expository Writing	3	0	3		
FIP 228	Local Government Finance	3	0	3		
FIP 256	Municipal Public Relations	3	0	3		
FIP 276	Managing Fire Services	3	0	3		
SPRING SEMESTER, 2009						
FIP 240	Fire Service Supervision	3	0	3		
FIP 248	Fire Service Personnel Administration	3	0	3		

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 1997-98	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY FIRE PROTECTION TECHNOLOGY Wildland Fire Suppression Option (C55240W) Certificate Day Program Only	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Credit	Grade	Semester	Remarks
				Lab					
2 Semesters									
FALL SEMESTER, 2008									
FIP	180	Wildland Fire Behavior	3	0	3				
FIP	188	Introduction to Wildland Fires	3	2	4				
SPRING SEMESTER, 2009									
FIP	268	Wildland Fire Management	3	0	3				
FIP	272	Wildland Fire Strategy	3	2	4				

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 14

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE
Revised Fall Semester PLAN OF STUDY Effective Fall Semester
2003-2004 GENERAL EDUCATION 2008-2009
Concentration in Emergency Preparedness Management
Associate Degree
Day and Evening Program

*This template has been developed by university and community college faculty and made specific for Durham Tech students. It is to be used as a blueprint for guiding students interested in majoring in Emergency Preparedness Management AGE in their course selections. Students who successfully complete this course of study and who meet the requirements for admission to the university may be eligible to apply for admission to the major with junior standing. Students who complete the General Education Core exclusively at community colleges in North Carolina will be able to transfer the set of courses as a package. **This agreement is meant as a guide and the student should not assume that it addresses unique requirements set by his or her university of choice. It is the student's responsibility to become aware of individual requirements of the senior institution.***

General Education Core (44 SHC): 44 semester hours of credit (SHC) in general education core courses are required as outlined by the North Carolina Community College Curriculum Standards for Associate in Science degree programs. The General Education core includes study in the areas of English composition, humanities and fine arts, social and behavioral sciences, natural sciences and mathematics. Credits from other colleges and universities will be evaluated on an individual basis.

Students who already have a college degree may transfer up to 36 hours of coursework into the General Education program for elective hours. Courses that are equivalent to the 18-hour group of courses will also be accepted for transfer. Students seeking a first degree may transfer more than 36 elective hours into the program, provided that at least ¼ of the total credit hours required are completed at Durham Tech including 9 of the final 18 hours.

At Durham Tech, the Emergency Preparedness Management Program Director and academic advisors work one-on-one with AGE students to fit their academic needs. Students may enroll in this individualized program any semester and can complete requirements through day, evening, or weekend classes according to availability.

ASSOCIATE IN GENERAL EDUCATION

The Associate in General Education degree is awarded upon successful completion of 64 semester credit hours including the minimum in each of the areas below. All courses must be numbered 110 or above.

ACA 122-College Transfer Success – 1 credit hour

General Education Core Classes:

English - 6 credit hours:

ENG 111 and either ENG 112 or ENG 113

Humanities/Fine Arts (12 hours)

Students must select an English Literature course.

ART 111, 114, 115; DRA 122; ENG (excluding ENG 111,112, 113), 231, 232, 233, 241 242 243, 251, 252, 261, 262; FRE 211; GER 211; HUM 110, 120, 121, 160; ITA 211; MUS 110; PHI 215, 240; POR 211; REL 110, 211; SPA 211, 212.

English Literature			
Foreign Language 111			
Foreign Language 112			
3 rd Discipline			

Mathematics - 7 credit hours selected from:

MAT 151, and MAT 171 and 171A or MAT 172 and 172A

Natural Sciences (8 hours)

Select from BIO 111,112; CHM 131 and 131A, 151, 152; GEL 111, 113; PHY 110 and PHY 110A, 151 or 252; PHY 152 or 252.
(Students may not receive credit for both CHM 131/131A and CHM 151.)

Social/Behavioral Sciences (12 hours)

History 131 or 132, and select four courses from at least three disciplines. Must include one history.

ANT 210, 220; ECO 251, 252; GEO 111; HIS 111, 112, 121, 122, 131, 132; POL 120, 220; PSY 150, 237, 241, 281;

SOC 210, 213, 220, 225

History 131or History 132			
2 nd Discipline			
3 rd Discipline			
Other			

Emergency Preparedness Management Classes (21 hours)

EPT 120	Fall Semesters		
EPT 150	Fall Semesters		
EPT 210	Spring Semester		
EPT 220	Fall Semesters		
EPT 275	Spring Semesters		
FIP 236	Fall Semesters		
FIP 256	Fall Semesters		

Note: ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE		
Revised Spring Semester PLAN OF STUDY Effective Fall Semester		
2007 GENERAL EDUCATION 2008-2009		
Associate Degree		
Day and Evening Program		

Students in the General Education Program receive the Associate in General Education degree (AGE) upon completion of 64 credit hours. The flexible AGE program is designed for individuals wishing to broaden their education with emphasis on personal interest, growth, and development. This program is not designed as a transfer program. The two-year AGE program provides students opportunities to study English, literature, fine arts, philosophy, social science, science, and mathematics at the college level and to explore technical areas of study.

A total of 64 credit hours is required for the Associate in General Education degree; and each student must complete a minimum 18-hour group of courses in English, social sciences, humanities, and mathematics/science. The remaining hours may be selected from any courses numbered 110 and above as found in the North Carolina Community College System Common Course Library. Credits from other colleges and universities will be evaluated on an individual basis.

Students who already have a college degree may transfer up to 36 hours of coursework into the General Education program for elective hours. Courses that are equivalent to the 18-hour group of courses will also be accepted for transfer. Students seeking a first degree may transfer more than 36 elective hours into the program, provided that at least $\frac{1}{4}$ of the total credit hours required are completed at Durham Tech including 9 of the final 18 hours.

At Durham Tech, the Program Director and academic advisors work one-on-one with AGE students to individualize their plans of study to fit their academic needs. Students may enroll in this individualized program any semester and can complete requirements through day, evening, or weekend classes.

ASSOCIATE IN GENERAL EDUCATION

ACA 111 College Success or ACA 122-College Transfer Success- 1 credit hour

The Associate in General Education degree is awarded upon successful completion of 64 semester credit hours including the minimum in each of the areas below. All courses must be numbered 110 or above.

English - 6 credit hours:

ENG 111 and either ENG 112 or ENG 113

Humanities - 6 credit hours selected from:

ART, DRA, ENG (excluding ENG 111, 112, 113), FRE, GER, HUM, ITA, MUS, PHI, POR, REL, SPA

Mathematics or Science - 3 credit hours selected from:

BIO, CHM, GEL, MAT, PHY

Social Sciences - 3 credit hours selected from:

ANT, ECO, GEO, HIS, POL, PSY, SOC

Computer Competency: All AGE students must demonstrate computer competency to graduate. That competency may be demonstrated by a satisfactory score on the computer competency test, by credit by exam, or by completing CIS 110 or CIS 113.

Electives – a minimum of 46 semester credit hours selected from course prefixes above and COM; ENG (courses numbered 110 and above not used to satisfy English requirements listed above); HEA; PED; or any technical courses numbered 110 or above as found in the North Carolina Community College System Common Course Library. A maximum of 7 semester hours credit from health (HEA), and physical education (PED) (with a limit of 2 semester credit hours from PED courses) and college orientation (ACA) courses can be counted toward the Elective requirement

DURHAM TECHNICAL COMMUNITY COLLEGE
 Revised Spring Semester **PLAN OF STUDY** Effective Fall Semester
 2008 **HEALTH INFORMATION TECHNOLOGY (A45360)** 2008-2009
 Associate Degree

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

			Hours				Grade	Semester	Remarks
			Class	Lab	Clin	Credit			
6 Semesters									
FALL SEMESTER, 2008									
ACA	111	College Student Success	1	0	0	1			
BIO	168	Anatomy and Physiology I	3	3	0	4			
CIS	110	Introduction to Computers	2	2	0	3			
ENG	111	Expository Writing*	3	0	0	3			
HIT	110	Fundamentals of HIT	2	0	0	2			Online Delivery
MED	121	Medical Terminology I	3	0	0	3			
SPRING SEMESTER, 2009									
BIO	169	Anatomy and Physiology II	3	3	0	4			
HIT	112	Health Law & Ethics	3	0	0	3			
HIT	114	Health Data Sys/Standards	2	3	0	3			
HIT	212	ICD-9-CM Coding	3	3	0	4			
MED	122	Medical Terminology II	3	0	0	3			
SUMMER TERM, 2009									
ENG	112	Argument-Based Research	3	0	0	3			
	or								
	113	Literature-Based Research							
H	HIT	214	CPT/Other Coding Systems	1	3	0	2		Hybrid Deliver
T	HIT	220	Computers in Healthcare	1	2	0	2		Traditional Delivery
	HIT	226	Principles of Disease	3	0	0	3		Online Deliver
FALL SEMESTER, 2009									
DBA	110	Database Concepts	2	3	0	3			
HIT	215	Reimbursement	1	3	0	2			
		Methodology							Online Delivery
OST	247	CPT Coding in the Med Off	1	2	0	2			Online Delivery
MAT	140	Survey of Mathematics*	3	0	0	3			
MAT	140A	Survey of Mathematics Lab	0	2	0	1			
		Humanities Elective				3			
SPRING SEMESTER, 2010									
BUS	137	Principles of Management	3	0	0	3			
HIT	210	Healthcare Statistics	2	2	0	3			
HIT	216	Quality Management	1	3	0	2			
HIT	280	Professional Issues	2	0	0	2			
		Social Science Elective				3			

(Over)

SUMMER SEMESTER, 2010

D	HIT	124	Prof/Practice Exp II	1	0	3	2			Day Delivery
D	HIT	222	Prof Practice Exp III	0	0	6	2			Day Delivery

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 74

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

H—Hybrid Delivery--The classroom component for these courses alternate between day and evening offerings each academic year. Courses with an H beside them will be offered during the day in years ending with an odd number and during the evening in years ending with an even number.

T—Traditional Delivery-- This course will alternate between day and evening offerings each academic year. The course with a T will be offered during the day in years ending with an odd number and during the evening in years ending with an even number.

D—Day Delivery Only—Professional Practice Experience courses are offered only during the day.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, MUS 113, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 118, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE
 Revised Spring Semester **PLAN OF STUDY** Effective Fall Semester
 2008 **HEALTH INFORMATION TECHNOLOGY (D45360)** 2008-2009
 Comprehensive Coding Diploma

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

				Hours		Credit	Grade	Semester	Remarks
Course Title				Class	Lab				
4 Semesters									
FALL SEMESTER, 2008									
	BIO	168	Anatomy and Physiology I	3	3	0	4		
	ENG	111	Expository Writing*	3	0	0	3		
	MED	121	Medical Terminology I	3	0	0	3		
	HIT	110	Fundamental of HIM	2	0	0	2		Online Delivery
	CIS	110	Intro to Computers	2	2	0	3		
SPRING SEMESTER, 2009									
	BIO	169	Anatomy and Physiology II	3	3	0	4		
	MED	122	Medical Terminology II	3	0	0	3		
	HIT	112	Health Law & Ethics	3	0	0	3		Online Delivery
	HIT	114	Health Data Sys/Standards	2	3	0	3		Online Delivery
H	HIT	212	ICD-9-CM Coding	3	3	0	4		Hybrid Delivery
SUMMER TERM, 2009									
H	HIT	214	CPT/Other Coding Systems	1	3	0	2		Hybrid Delivery
T	HIT	220	Computers in Healthcare	1	2	0	2		Traditional Delivery
	HIT	226	Principles of Disease	3	0	0	3		Online Delivery
FALL SEMESTER, 2009									
D	HIT	124	Prof/Practice Exp II	1	0	3	2		Day Delivery
	HIT	215	Reimbursement Methodology	1	3	0	2		Online Delivery
D	HIT	222	Prof Practice Exp III	0	0	6	2		Day Delivery
H	OST	247	CPT Coding in the Med Off	1	2	0	2		Hybrid Delivery

TOTAL SEMESTER HOURS REQUIRED FOR DIPLOMA **47**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, RED 070, RED 080, or RED 090 may be required based on placement test results.

H—Hybrid Delivery--The classroom component for these courses alternate between day and evening offerings each academic year. Courses with an H beside them will be offered during the day in years ending with an odd number and during the evening in years ending with an even number.

T—Traditional Delivery-- This course will alternate between day and evening offerings each academic year. The course with a T will be offered during the day in years ending with an odd number and during the evening in years ending with an even number.

D—Day Delivery Only—Professional Practice Experience courses are offered only during the day.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

INT 110
INTERNATIONAL BUSINESS

COURSE DESCRIPTION:

Prerequisites: None

Corequisites: None

This course provides an overview of the environment, concepts, and basic differences involved in international business. Topics include forms of foreign involvement, international trade theory, governmental influences on trade and strategies, international organizations, multinational corporations, personnel management, and international marketing. Upon completion, students should be able to describe the foundation on international business. Course Hours Per Week: Class, 3; Semester Hours Credit: 3.

LEARNING OUTCOMES:

At the completion of this course you will be able to do the following:

- A. Explain the economic importance of international business and demonstrate an understanding of the nature and defining elements of domestic, multinational and global businesses.
- B. Recognize global cultural diversity and describe important ways that culture impacts the conduct of international business.
- C. Demonstrate by explanation and calculations how, and why, global trade can improve the welfare of all countries.
- D. Demonstrate a working knowledge of the nature of foreign exchange markets, currency translation and the international monetary system.
- E. Cite examples and describe the opportunities and challenges of regional economic integration as well as important large emerging markets.
- F. Recognize, explain reasons for, and evaluate central government policies affecting global trade and investment.
- G. Cite examples and analyze legal and political issues that affect the global business environment.
- H. Review and evaluate alternative approaches to managing and controlling international business.
- I. Recognize the differences in national and regional markets around the world, and be able to utilize available secondary sources of research data to analyze world markets.
- J. Identify and evaluate positive and negative aspects of alternative modes of entry into the international business arena.
- K. Explain key marketing principles and select an appropriate marketing mix for the global distribution of selected goods and services.
- L. Explain the pivotal role that international finance and various financial instruments and policies play in facilitating global commerce and repatriation of profits.

OUTLINE OF INSTRUCTION:

- I. The Nature of Global Business
 - A. What Is Global Business?
 - B. Global Linkages Today
 - C. Current US International Trade Position

- II. Culture and Global Business
 - A. Culture Defined
 - B. The Elements of Culture
 - C. The Training Challenge
- III. Global Trade and investment Theory
 - A. The development and demise of mercantilism
 - B. Classical Trade Theory
 - C. Factor Proportion Theory
 - D. International Investment and Product Cycle Theory
 - E. The New Trade Theory
 - F. The Theory of International Investment
- IV. Global Financial Markets, Foreign Exchange and the International Monetary System
 - A. The Purpose of Exchange Rates
 - B. The Foreign Exchange Market
 - C. Fixed and Floating Foreign Exchange Rates
 - D. Significant Monetary Events
 - E. Exchange Rates, Interest Rates and Economic Policy
- V. Economic Integration and Emerging Markets
 - A. The levels of economic integration
 - B. Arguments about economic integration
 - C. The European Union
 - D. The North American Free Trade Agreement
 - E. Other Alliances
 - F. Cartels
- VI. Government Trade Policies
 - A. Rationale and Goals of Trade and Investment Policies
 - B. Global Developments since WWII
 - C. Three Major Changes In Global Environmental Policy
 - D. Policy Responses to Changing Conditions
- VII. Legal and Political Environment
 - A. Private International Law
 - B. Public International Law
 - C. Risk to Global Business
 - D. Doctrine of Sovereign Immunity
 - E. Doctrine of Eminent Domain
 - F. Accounting and tax differences
 - G. Labor law differences
- VIII. Organization, Management and Control
 - A. Basic organizational approaches
 - B. Factors affecting organizational structure
 - C. The multinational corporation (MNC)
 - D. Foreign Direct Investment (FDI)
 - E. Human Resource policies
 - F. Control of the organization

- IX. Global Business Entry
 - A. The Role of Management
 - B. Methods of entering Global Markets
 - C. International Intermediaries and Facilitators
- X. International Finance
 - A. Financing Exports and Imports
 - B. International Capital and Cash Management
 - C. Capital Structure: International Dimensions
 - D. International Capital Market
 - E. International Banking and Security Markets
- XI. Strategic Planning and Business Research
 - A. The Strategic Process
 - B. The Need for Global Research
 - C. Conducting Research
 - D. Market Selection
- XII. Marketing Mix for Products and Services
 - A. Marketing Management
 - B. Products and Services
 - C. Pricing Policies
 - D. Place (Distribution) Policy
 - E. Role of Services in the US and World Economies

REQUIRED TEXTBOOK AND MATERIALS:

The textbook and other instructional materials will be determined by the instructor to insure current and relevant concepts and theories are present.

STATEMENT FOR STUDENTS WITH DISABILITIES:

Students who require academic accommodations due to any physical, psychological, or learning disability are encouraged to request assistance from a disability services counselor within the first two weeks of class. Likewise, students who potentially require emergency medical attention due to any chronic health condition are encouraged to disclose this information to a disability services counselor within the first two weeks of class. Counselors can be contacted by calling 686-3652 or by visiting the Student Development Office in the Phail Wynn Jr. Student Services Center, room 1309.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY Information Systems Security (A25270) Associate Degree

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Credit	Grade	Semester Offered					
				Lab				Fall 2008	Spring 09	Summer09			
					1 Hour	Day	Day	Day					
							Evening	Evening	Evening				
ACA	111	College Student Success	1	0	1		x	x	x	x	x	x	
General Education Course					19 Hours								
ACA	111	College Student Success	1	0	1		x	x	x	x	x	x	
ENG	111	Expository Writing*	3	0	3		x	x	x	x	x	x	
ENG	112	Argument-Based Research	3	0	3		x	x	x	x	x	x	
MAT	140	Survey of Mathematics*	3	0	3		x	x	x	x	x	x	
MAT	140A	Survey of Mathematics Lab	0	2	1		x	x	x	x	x	x	
COM	231	Public Speaking	3	0	3		x	x	x	x	x	x	
		Social Science Elective			3		x	x	x	x	x	x	
		Humanities Elective			3		x	x	x	x	x	x	
Information Systems Security - Core Courses - required					50 Hours								
BUS	110	Introduction to Business	3	0	3		x	x	x	x	x	x	
CIS	110	Introduction to Computers	2	2	3		x	x	x	x	x	x	
CIS	115	Programming/Logic Concepts	2	3	3		x	x	x	x	x		
DBA	110	Database Concepts	2	3	3		x	x	x	x		x	
NET	125	Networking Basics	1	4	3		x	x	x		x	x	
NET	126	Routing Basics	1	4	3			x	x		x		
NOS	110	Operating System Concepts	2	3	3		x	x	x	x	x		
NOS	120	Linux/UNIX Single User	2	2	3		x	x	x	x		x	
NOS	130	Windows Single User	2	2	3		x	x	x	x			
NOS	230	Windows Admin I	2	2	3		x	x	x	x			
SEC	110	Security Concepts	3	0	3		x	x	x	x	x		
SEC	150	Secure Communications	2	2	3					x			
SEC	160	Secure Admin I	2	2	3			x	x				
SEC	210	Intrusion Detection	2	2	3						x		
SEC	220	Defense-in-Depth	2	2	3		x						
SEC	289	Security Capstone Project	1	4	3				x				
COE	110	World of Work	1	0	1		x		x				
COE	111	Co-op Work Experience I	0	10	1		x		x				
Information Systems Security – choose TWO Major Electives					6 Hours								
CTS	120	Hardware/Software Support	2	3	3		x	x	x	x			
CTS	220	Adv Hardware/Software Support	2	3	3		x	x	x	x		x	
NOS	220	Linux/UNIX Admin I	2	2	3			x	x				
NOS	221	Linux/UNIX Admin II	2	2	3								
NOS	231	Windows Admin II	2	2	3		x			x			
NOS	232	Windows Admin III	2	2	3								
NET	175	Wireless Technology	2	2	3		x						
NET	225	Routing & Switching I	1	4	3		x			x			
NET	226	Routing & Switching II	1	4	3		x			x			
SEC	240	Wireless Security	2	2	3				x				

(Over)

Required Courses Credit Hours	64
Major Electives Credit Hours	6
Humanities Elective Credit Hours	3
Social Science Elective Credit Hours	3
Total Semester Hours Required for A.A.S. Degree	76

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Information Systems Security – page 2

Shaded Columns represent evening courses

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2006

PLAN OF STUDY
Information Systems Security (C25270S)
Secure Networking Option
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
NET	125	Networking Basics	1	4	3			
SEC	110	Security Concepts	3	0	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			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY INDUSTRIAL SYSTEMS TECHNOLOGY (A50240)

Effective Fall Semester
2008-2009

Associate Degree
Day and Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Lab	Hours Credit	Grade	Semester	Remarks
6 Semesters						
FALL SEMESTER, 2008						
ACA 111	College Student Success	1	0	1		
ELC 112	DC/AC Electricity	3	6	5		
ENG 111	Expository Writing	3	0	3		
HYD 110	Hydraulics/Pneumatics I	2	3	3		
MAT 121	Algebra/Trigonometry I*	2	2	3		
SPRING SEMESTER, 2009						
ELC 117	Motors and Controls	2	6	4		
ENG 112	Argument-Based Research	3	0	3		
MNT 240	Industrial Equip Troubleshooting	1	3	2		
PHY 110	Conceptual Physics	3	0	3		
PHY 110A	Conceptual Physics Lab	0	2	1		
SUMMER TERM, 2009						
DFT 117	Technical Drafting	1	2	2		
ELC 215	Electrical Maintenance	2	3	3		
MEC 111	Machine Processes I	2	3	3		
PLU 111	Intro to Basic Plumbing	1	3	2		
ISC 112	Industrial Safety	2	0	2		
FALL SEMESTER, 2009						
AHR 110	Intro to Refrigeration	2	6	5		
BPR 111	Blueprint Reading	1	2	2		
CIS 110	Introduction to Computers	2	2	3		
WLD 112	Basic Welding Processes	1	3	2		
SPRING SEMESTER, 2010						
AHR 112	Heating Technology	2	4	4		
MNT 110	Intro to Maintenance Procedures	1	3	2		
MNT 230	Pumps and Piping Systems	1	3	2		
WLD 121	GMAW (MIG) FCAW/Plate	2	6	4		
	Humanities Elective	3	0	3		
	Social Science Elective	3	0	3		

Required Courses Credit Hours	64
Humanities Elective Credit Hours	3
Social Science Elective Credit Hours	3
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE	70

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2005-2006

**PLAN OF STUDY
INDUSTRIAL SYSTEMS TECHNOLOGY**

Effective Fall Semester
2008-2009

HVAC Option (C50240C)

Certificate
Day and Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
MNT 110 Intro to Maintenance Procedures	1	3	2			
ISC 112 Industrial Safety	2	0	2			
AHR 110 Introduction to Refrigeration	2	6	5			
AHR 112 Heating Technology	2	4	4			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 13

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2008-2009

**PLAN OF STUDY
INDUSTRIAL SYSTEMS TECHNOLOGY
MAINTENANCE (C50240M)**

Effective Fall Semester
2008-2009

Certificate
Day and Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
MNT 110 Intro to Maintenance Procedures	1	3	2			
ISC 112 Industrial Safety	2	0	2			
BPR 111 Blueprint Reading	1	2	2			
MEC 111 Machine Processes I	2	3	3			
PLU 111 Intro to Basic Plumbing	1	3	2			
ELC 112 DC/AC Electricity	3	6	5			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 16

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2005-2006

PLAN OF STUDY INDUSTRIAL SYSTEMS TECHNOLOGY

Effective Fall Semester
2008-2009

Welding Option (C50240B)

Certificate
Day and Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
MNT 110 Intro to Maintenance Procedures	1	3	2			
WLD 112 Basic Welding Processes	1	3	2			
ISC 112 Industrial Safety	2	0	2			
BPR 111 Blueprint Reading	1	2	2			
WLD 121 GMAW(MIG)FCAW/Plate	2	6	4			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 12

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2006

PLAN OF STUDY PARALEGAL TECHNOLOGY (A25380) Associate Degree Day & Evening Program

Effective Fall Semester
2008-2009

Paralegal Technology A.A.S. degree graduates are eligible to sit for the Paralegal Certification Exam offered by the NC State Bar.

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
5 Semesters						
FALL SEMESTER, 2008						
CIS 110	Introduction to Computers	2	2	3		
ENG 111	Expository Writing*	3	0	3		
LEX 110	Introduction to Paralegal Study	2	0	2		
LEX 130	Civil Injuries	3	0	3		
LEX 140	Civil Litigation I	3	0	3		
LEX 160	Criminal Law & Procedure	2	2	3		
LEX 210	Real Property I	3	0	3		
SPRING SEMESTER, 2009						
ENG 112	Argument-Based Research	3	0	3		
LEX 141	Civil Litigation II	2	2	3		
LEX 150	Commercial Law I	2	2	3		
LEX 211	Real Property II	1	4	3		
LEX 220	Corporate Law	2	0	2		
SUMMER TERM, 2009						
LEX 240	Family Law	3	0	3		
LEX 270	Law Office Management/Technology	1	2	2		
MAT 115	Mathematical Models*	2	2	3		
FALL SEMESTER, 2009						
ACC 120	Principles of Financial Acct	3	2	4		
COM 231	Public Speaking	3	0	3		
LEX 120	Legal Research/Writing I	2	2	3		
LEX 250	Wills, Estates, & Trusts	2	2	3		
LEX 285	Workers' Compensation Law	2	0	2		
	Humanities Elective					
SPRING SEMESTER, 2010						
LEX 121	Legal Research/Writing II	2	2	3		
LEX 180	Case Analysis & Reasoning	1	2	2		
LEX 260	Bankruptcy & Collections	3	0	3		
LEX 280	Ethics & Professionalism	3	0	3		

(Over)

SPRING SEMESTER, 2010 continued

LEX 286 Medical Evidence Analysis 1 2 2
Social Sciences Elective

Required Course Credit Hours 70
Humanities Elective Credit Hours 3
Social Science Elective Credit Hours 3
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 76

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement tests results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring Semester
2006

DURHAM TECHNICAL COMMUNITY COLLEGE
PLAN OF STUDY
PARALEGAL TECHNOLOGY
Business Law Option (C25380B)
Certificate
Day & Evening Program

Effective Fall Semester
2008-2009

This is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
LEX	110	Introduction to Paralegal Study	2	0	2			
LEX	150	Commercial Law I	2	2	3			
LEX	210	Real Property I	3	0	3			
LEX	211	Real Property II	1	4	3			
LEX	220	Corporate Law	2	0	2			
LEX	260	Bankruptcy & Collections	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 16

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Please note: Only Paralegal Technology A.A.S. degree graduates are eligible to sit for the Paralegal Certification Exam offered by the NC State Bar.

Revised Fall Semester
2002-2003

DURHAM TECHNICAL COMMUNITY COLLEGE
PLAN OF STUDY
PARALEGAL TECHNOLOGY
Civil Litigation Option (C25380C)
Certificate
Day & Evening Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
LEX	130	Civil Injuries	3	0	3			
LEX	140	Civil Litigation I	3	0	3			
LEX	141	Civil Litigation II	2	2	3			
LEX	150	Commercial Law I	2	2	3			
LEX	210	Real Property I	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Please Note: Only Paralegal Technology A.A.S. degree graduates are eligible to sit for the Paralegal Certification Exam offered by the NC State Bar.

DURHAM TECHNICAL COMMUNITY COLLEGE

PLAN OF STUDY

Revised Fall Semester
2002-2003

MACHINING TECHNOLOGY
CNC Option (C50300C)
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
MAC	131	Blueprint Reading MACH I	1	2	2			
MAC	121	Introduction to CNC	2	0	2			
MAC	122	CNC Turning	1	3	2			
MAC	124	CNC Milling	1	3	2			
MAC	151	Machining Calculations	1	2	2			
MAC	222	Advanced CNC Turning	1	3	2			
MAC	224	Advanced CNC Milling	1	3	2			
MAT	101	Applied Mathematics*	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 17

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Semester
Fall 2007

PLAN OF STUDY
MACHINING TECHNOLOGY (D50300)
Diploma
Day Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours		Grade	Semester	Remarks
		Lab	Credit			
3 Semesters						
FALL SEMESTER, 2008						
DFT 119 Basic CAD	1	2	2			
MAC 111 Machining Technology I	2	12	6			
MAC 121 Introduction to CNC	2	0	2			
MAC 131 Blueprint Reading MACH I	1	2	2			
MAT 101 Applied Mathematics I*	2	2	3			
PHY 110 Conceptual Physics	3	0	3			
PHY 110A Conceptual Physics Lab	0	2	1			
SPRING SEMESTER, 2009						
ENG 111 Expository Writing*	3	0	3			
MAC 112 Machining Technology II	2	12	6			
MAC 122 CNC Turning	1	3	2			
MAC 124 CNC Milling	1	3	2			
MAC 151 Machining Calculations	1	2	2			
MAC 226 CNC EDM Machining	1	3	2			
SUMMER TERM, 2009						
MAC 132 Blueprint Reading MACH II	1	2	2			
MAC 113 Machining Technology III	2	12	6			
MAC 222 Advanced CNC Turning	1	3	2			
MAC 224 Advanced CNC Milling	1	3	2			

TOTAL SEMESTER HOURS REQUIRED FOR DIPLOMA 48

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

PLAN OF STUDY

Spring
2008

MACHINING TECHNOLOGY
Basic Machining Option (C50300M)
Certificate

New Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours		Credit	Grade	Semester	Remarks
			Class	Lab				
DFT	119	Basic CAD	1	2	2			
MAC	111	Machining Technology	2	12	6			
MAC	121	Introduction to CNC	2	0	2			
MAC	131	Blueprint Reading MACH I	1	2	2			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 12

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2007

PLAN OF STUDY MEDICAL ASSISTING Office Centered Option (C45400C) Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Credit	Grade	Semester
	Class	Lab	Clinical			
	Remarks					

2 Semesters

FALL SEMESTER, 2008

MED	110	Orientation to Medical Assisting	1	0	0	1			
MED	118	Medical Law and Ethics	2	0	0	2			
MED	121	Medical Terminology I	3	0	0	3			
MED	130	Admin Office Proc I	1	2	0	2			
CIS	110	Introduction to Computers	2	2	0	3			

SPRING SEMESTER, 2009

MED	122	Medical Terminology II	3	0	0	3			
MED	131	Admin Office Proc II	1	2	0	2			

Total Semester Hours Required for Certificate **16**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

5/29/2007

DURHAM TECHNICAL COMMUNITY COLLEGE

New Summer Term
2007

PLAN OF STUDY MEDICAL ASSISTING (D45400) Diploma Day Program

Effective Summer Term
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours				Credit	Grade	Semester	Remarks
	Class	Lab	Clinical					
4 Semesters								
SUMMER TERM, 2008								
ACA 111	College Student Success	1	0	0	1			
ENG 111	Expository Writing*	3	0	0	3			
CIS 110	Introduction to Computers	2	2	0	3			
FALL SEMESTER, 2008								
BIO 163	Basic Anatomy and Physiology*	4	2	0	5			
MED 110	Orientation to Medical Assisting	1	0	0	1			
MED 114	Prof Interac in Health Care	1	0	0	1			
MED 121	Medical Terminology I	3	0	0	3			
MED 130	Admin Office Proc I	1	2	0	2			
MAT 110	Mathematical Measurement*	2	2	0	3			
MED 118	Medical Law and Ethics	2	0	0	2			
SPRING SEMESTER, 2009								
MED 122	Medical Terminology II	3	0	0	3			
MED 131	Admin Office Proc II	1	2	0	2			
MED 140	Exam Room Procedures I	3	4	0	5			
MED 150	Laboratory Procedures I	3	4	0	5			
SUMMER TERM, 2009								
MED 260	MED Clinical Externship	0	0	15	5			
MED 262	Clinical Perspectives	1	0	0	1			

TOTAL SEMESTER HOURS REQUIRED FOR DIPLOMA **45**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

5/29/2007

New Fall Semester 2007	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY MEDICAL ASSISTING Introductory Medical Assisting (C45400A) Certificate	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours		Credit	Grade	Semester
	Class	Lab Clinical			
Remarks					

2 Semesters

FALL SEMESTER, 2008

ACA	111	College Student Success	1	0	0	1			
MED	110	Orientation to Medical Assisting	1	0	0	1			
MED	114	Prof Interac in Health Care	1	0	0	1			
MED	121	Medical Terminology I	3	0	0	3			
CIS	110	Introduction to Computers	2	2	0	3			
MED	118	Medical Law and Ethics	2	0	0	2			

SPRING SEMESTER, 2009

MED	122	Medical Terminology II	3	0	0	3			
ENG	111	Expository Writing*	3	0	0	3			

Total Semester Hours Required for Certificate **17**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

5/29/2007

DURHAM TECHNICAL COMMUNITY COLLEGE
 Revised Summer Semester PLAN OF STUDY Effective Fall Semester
 2008 **MEDICAL OFFICE ADMINISTRATION (A25310)** 2008-2009
 Associate Degree
 Day Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

			Hours			Grade	Semester	Remarks
Course Title	Class		Lab	Credit				
5 Semesters								
FALL SEMESTER, 2008								
ACA 111	College Student Success	1	0	1				
BUS 110	Introduction to Business	3	0	3				
ENG 111	Expository Writing*	3	0	3				
MAT 115	Mathematical Models*	2	2	3				
MED 121	Medical Terminology I	3	0	3				
OST 131	Keyboarding	1	2	2				
OST 184	Records Management	2	2	3				
SPRING SEMESTER, 2009								
ACC 120	Principles of Financial Accounting	3	2	4				
CIS 110	Introduction to Computers	2	2	3				
ENG 112	Argument-Based Research	3	0	3				
MED 122	Medical Terminology II	3	0	3				
OST 148	Medical Coding, Billing, & Insurance	3	0	3				
SUMMER TERM, 2009								
OST 134	Text Entry and Formatting	2	2	3				
OST 149	Medical Legal Issues	3	0	3				
OST 164	Text Editing Applications	3	0	3				
	Social Science Elective							
FALL SEMESTER, 2009								
COM 231	Public Speaking	3	0	3				
OST 136	Word Processing	2	2	3				
OST 241	Medical Office Transcription I	1	2	2				
OST 243	Medical Office Simulation	2	2	3			Evening Class	
OST 289	Admin Office Management	2	2	3				
	Humanities Elective							

(Over)

SPRING SEMESTER, 2010

COE 110	World of Work	1	0	1
COE 112	Co-op Work Experience I	0	20	2
OST 236	Advanced Word/Information Processing	2	2	3
OST 242	Medical Office Transcription II	1	2	2
OST 284	Emerging Technologies	1	2	2

		Evening Class
		Evening Class

Required Courses Credit Hours	67
Humanities Elective	3
Social Science Elective Credit Hours	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 73

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE		
Revised Summer Semester	PLAN OF STUDY	Effective Fall Semester
2008	MEDICAL OFFICE ADMINISTRATION (A25310)	2008-2009
Associate Degree Evening Program		

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Class	Hours		Credit	Grade	Semester	Remarks
				Lab					
7 Semesters									
FALL SEMESTER, 2008									
ACA	111	College Student Success	1	0	1				
BUS	110	Introduction to Business	3	0	3				
ENG	111	Expository Writing*	3	0	3				
MAT	115	Mathematical Models*	2	2	3				
OST	131	Keyboarding	1	2	2				
SPRING SEMESTER, 2009									
ACC	120	Principles of Financial Accounting	3	2	4				
CIS	110	Introduction to Computers	2	2	3				
ENG	112	Argument-Based Research	3	0	3				
SUMMER TERM, 2009									
COM	231	Public Speaking	3	0	3				
OST	134	Text Entry & Formatting	2	2	3				
OST	149	Medical Legal Issues	3	0	3				
FALL SEMESTER, 2009									
MED	121	Medical Terminology I	3	0	3				
OST	136	Word Processing	2	2	3				
OST	164	Text Editing Applications	3	0	3			Evening Class	
OST	184	Records Management	2	2	3				
SPRING SEMESTER, 2010									
MED	122	Medical Terminology II	3	0	3				
OST	148	Medical Coding, Billing & Insurance	3	0	3				
OST	236	Advanced Word/Information Processing	2	2	3			Evening Class	
OST	284	Emerging Technologies	1	2	2			Evening Class	

(Over)

SUMMER TERM, 2010

OST 241 Medical Office Transcription I 1 2 2
 Humanities Elective

FALL SEMESTER, 2010

COE 110 World of Work 1 0 1
 COE 112 Co-op Work Experience I 0 20 2
 OST 242 Medical Office Transcription II 1 2 2
 OST 243 Medical Office Simulation 2 2 3
 OST 289 Admin Office Management 2 2 3
 Social Science Elective

		Evening Class

Required Course Credit Hours 67
 Humanities Elective Credit Hours 3
 Social Science Elective Credit Hours 3
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 73

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, MUS 110, PHI 215, REL 110, REL 211.

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Certificate
Day Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours		Credit	Grade	Semester
	Class	Lab			
2 Semesters					

ACA	111	College Student Success	1	0	0	1			
MED	110	Orientation to Medical Assisting	1	0	0	1			
MED	121	Medical Terminology I	3	0	0	3			

MED	122	Medical Terminology II	3	0	0	3			
MED	140	Exam Room Procedures I	3	4	0	5			
MED	150	Laboratory Procedures I	3	4	0	5			

Total Semester Hours Required for Certificate **18**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

5/29/2007

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY Networking Technology (A25340) Associate Degree

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title		Class	Lab	Hours Credit	Grade	Semester Offered					
						Fall 2008	Spring 09	Summer09			
						Day	Day	Day			
						Evening	Evening	Evening			
				1 Hour							
ACA	111	College Student Success	1	0	1		x	x	x	x	x
				19 Hours							
General Education Course											
ENG	111	Expository Writing*	3	0	3		x	x	x	x	x
ENG	112	Argument-Based Research	3	0	3		x	x	x	x	x
MAT	140	Survey of Mathematics*	3	0	3		x	x	x	x	x
MAT	140A	Survey of Mathematics Lab	0	2	1		x	x	x	x	x
COM	231	Public Speaking	3	0	3		x	x	x	x	x
		Social Science Elective			3		x	x	x	x	x
		Humanities Elective			3		x	x	x	x	x
				50 Hours							
Networking Technology - Core Courses - required											
BUS	110	Introduction to Business	3	0	3		x	x	x	x	x
CIS	110	Introduction to Computers	2	2	3		x	x	x	x	x
CIS	115	Programming/Logic Concepts	2	3	3		x	x	x	x	
CTS	120	Hardware/Software Support	2	3	3		x	x	x	x	
DBA	110	Database Concepts	2	3	3		x	x	x	x	
NET	125	Networking Basics	1	4	3		x	x	x	x	
NET	126	Routing Basics	1	4	3		x	x	x	x	
NET	225	Routing & Switching I	1	4	3		x			x	
NET	226	Routing & Switching II	1	4	3		x			x	
NET	289	Networking Project	1	4	3				x		
NOS	110	Operating System Concepts	2	3	3		x	x	x	x	
NOS	120	Linux/UNIX Single User	2	2	3		x	x	x	x	
NOS	220	Linux/UNIX Admin I	2	2	3			x	x	x	
NOS	130	Windows Single User	2	2	3		x	x	x	x	
NOS	230	Windows Admin I	2	2	3			x	x	x	
SEC	110	Security Concepts	3	0	3		x	x	x	x	
COE	110	World of Work	1	0	1		x		x		
COE	111	Co-op Work Experience I	0	10	1		x		x		
				3 Hours							
Networking Technology – choose one Major Elective											
SEC	150	Secure Communications	2	2	3					x	
SEC	160	Secure Admin I	2	2	3			x	x		
CTS	220	Adv Hardware/Software Support	2	3	3		x	x	x	x	
NOS	221	Linux/UNIX Admin II	2	2	3						
NOS	231	Windows Admin II	2	2	3		x			x	
NOS	232	Windows Admin III	2	2	3						
NET	175	Wireless Technology	2	2	3		x				

(Over)

Required Courses Credit Hours	64
Major Electives Credit Hours	3
Humanities Elective Credit Hours	3
Social Science Elective Credit Hours	3
Total Semester Hours Required for A.A.S. Degree	73

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Networking Technology – Day – page 2

Shaded Columns represent evening courses

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2006

PLAN OF STUDY
Networking Technology (C25340C)
CCNA Option
Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
SEC	110	Security Concepts	3	0	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			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2006

PLAN OF STUDY Networking Technology (C25340N) Network+ Option Certificate

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
NET	125	Networking Basics	1	4	3			
NOS	110	Operating System Concepts	2	2	3			
CTS	120	Hardware/Software Support	2	3	3			
CTS	220	Adv Hardware/Software Support	2	3	3			
NOS	120	Linux/UNIX Single User	2	2	3			
NOS	220	Linux/UNIX Admin I	2	2	3			
* or								
NOS	130	Windows Single User	2	2	3			
NOS	230	Windows Admin I	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY
OPTICIANRY (A45560)
Associate Degree

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours				Grade	Semester	Remarks
	Class	Lab	Clin	Credit			
5 Semesters							
FALL SEMESTER, 2008							
ACA 111 College Student Success	1	0	0	1			
CIS 110 Introduction to Computers	2	2	0	3			
ENG 111 Expository Writing*	3	0	0	3			
MAT 121 Algebra and Trigonometry I*	2	2	0	3			
OPH 131 Optical Dispensing I	3	0	0	3			
OPH 141 Optical Theory I	3	0	0	3			
SPRING SEMESTER, 2009							
OPH 111 Ophthalmic Lab I	2	3	0	3			
OPH 121 Anatomy & Physiology-Eye	3	0	0	3			
OPH 132 Optical Dispensing II	3	2	0	4			
OPH 142 Optical Theory II	3	0	0	3			
Science Elective							
SUMMER TERM, 2009							
ACC 120 Principles of Financial Accounting	3	2	0	4			
ENG 112 Argument-Based Research	3	0	0	3			
PSY 150 General Psychology	3	0	0	3			
FALL SEMESTER, 2009							
OPH 112 Ophthalmic Lab II	2	3	0	3			
OPH 222 Optical Business Management	3	0	0	3			
OPH 233 Advanced Optical Procedures	3	2	0	4			
OPH 251 Optical Internship I	0	0	3	1			
OPH 261 Contact Lenses I	3	3	0	4			
SPRING SEMESTER, 2010							
OPH 215 Laboratory Proficiency	0	6	0	2			
OPH 243 Technical Proficiency	3	0	0	3			
OPH 262 Contact Lenses II	3	3	0	4			
OPH 282 Optical Externship I	0	6	0	2			
Humanities Elective							

(Over)

Required Course Credit Hours	65
Science Elective Credit Hours	3
Humanities Elective Credit Hours	3
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE	71

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Science Electives: BIO 111, BIO 160, BIO 161, CHM 131, CHM 131A, PHY 121, PHY 125

SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

PLAN OF STUDY OPTICIANRY (A45560N) Associate Degree Internet Option Program

Effective Fall Semester
2007-2008

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours				Grade	Semester	Remarks
	Class	Lab	Clin	Credit			
5 Semesters							
FALL SEMESTER, 2008							
ACA 111 College Student Success	1	0	0	1			
CIS 110 Introduction to Computers	2	2	0	3			
ENG 111 Expository Writing*	3	0	0	3			
MAT 121 Algebra and Trigonometry I*	2	2	0	3			
OPH 131 Optical Dispensing I	3	0	0	3			
OPH 141 Optical Theory I	3	0	0	3			
SPRING SEMESTER, 2009							
OPH 111 Ophthalmic Lab I	2	3	0	3			
OPH 121 Anatomy & Physiology-Eye	3	0	0	3			
OPH 132 Optical Dispensing II	3	2	0	4			
OPH 142 Optical Theory II	3	0	0	3			
Science Elective							
SUMMER TERM, 2009							
ACC 120 Principles of Financial Accounting	3	2	0	4			
ENG 112 Argument-Based Research	3	0	0	3			
PSY 150 General Psychology	3	0	0	3			
FALL SEMESTER, 2009							
OPH 112 Ophthalmic Lab II	2	3	0	3			
OPH 222 Optical Business Management	3	0	0	3			
OPH 233 Advanced Optical Procedures	3	2	0	4			
OPH 251 Optical Internship I	0	0	3	1			
OPH 261 Contact Lenses I	3	3	0	4			
SPRING SEMESTER, 2010							
OPH 215 Laboratory Proficiency	0	6	0	2			
OPH 243 Technical Proficiency	3	0	0	3			
OPH 262 Contact Lenses II	3	3	0	4			
OPH 282 Optical Externship I	0	6	0	2			
Humanities Elective							

(Over)

Required Course Credit Hours	65
Science Elective Credit Hours	3
Humanities Elective Credit Hours	3
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE	71

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Science Electives: BIO 111, BIO 160, BIO 161, CHM 131, CHM 131A, PHY 121, PHY 125

SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised
Summer 2006

PLAN OF STUDY OPTICAL APPRENTICE (C45520) Certificate

Effective Summer Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
OPH	101	Math for Opticians*	3	0	3			
OPH	131	Optical Dispensing I	3	0	3			
OPH	141	Optical Theory I	3	0	3			
OPH	121	Anatomy & Physiology-Eye	3	0	3			
OPH	102	Ophthalmic Lab Concepts	2	0	2			
OPH	260	Basic Contact Lens Concepts	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 17

* ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2008

PLAN OF STUDY OFFICE SYSTEMS TECHNOLOGY (A25360)

Effective Fall Semester
2008-2009

Associate Degree
Day Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
Class	Lab	Credit						
5 Semesters								
FALL SEMESTER, 2008								
ACA	111	College Student Success	1	0	1			
BUS	110	Introduction to Business	3	0	3			
CIS	110	Introduction to Computers	2	2	3			
ENG	111	Expository Writing*	3	0	3			
MAT	115	Mathematical Models*	2	2	3			
OST	131	Keyboarding	1	2	2			
OST	184	Records Management	1	2	2			
SPRING SEMESTER, 2009								
ACC	120	Principles of Financial Accounting	3	2	4			
CTS	130	Spreadsheet	2	2	3			
ENG	112	Argument-Based Research	3	0	3			
OST	132	Keyboard Skill Building	1	2	2			Evening Class
OST	181	Introduction to Office Systems	2	2	3			
SUMMER TERM, 2009								
COM	231	Public Speaking	3	0	3			
OST	134	Text Entry & Formatting	2	2	3			
OST	136	Word Processing	1	2	2			
OST	164	Text Editing Applications	3	0	3			
FALL SEMESTER, 2009								
OST	135	Advanced Text Entry & Format	3	2	4			
OST	223	Machine Transcription I	1	2	2			
OST	236	Advanced Word/Information Processing	2	2	3			Evening Class
		Humanities Elective						
		Social Science Elective						
SPRING SEMESTER, 2010								
CIS	165	Desktop Publishing I	2	2	3			
COE	110	World of Work	1	0	1			
COE	112	Co-op Work Experience I	0	20	2			
OST	224	Machine Transcription II	1	2	2			
(Spring continued on next page)								

(Spring continued on next page)

(Over)

SPRING SEMESTER, 2010 Continued

OST 284	Emerging Technologies	1	2	2
OST 289	Office Systems Management	2	2	3

		Evening Class

Required Courses Credit Hours	65
Humanities Elective Credit Hours	3
Social Science Elective Credit Hours	3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 71

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, MAT 080, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, MUS 110, PHI 215, PHI 240, REL 110, REL 211,

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Summer Semester
2008

PLAN OF STUDY OFFICE SYSTEMS TECHNOLOGY (A25360)

Effective Fall Semester
2008-2009

Associate Degree
Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Lab	Hours		Grade	Semester	Remarks
				Credit			
7 Semesters							
FALL SEMESTER, 2008							
ACA 111	College Student Success	1	0	1			
BUS 110	Introduction to Business	3	0	3			
ENG 111	Expository Writing*	3	0	3			
MAT 115	Mathematical Models*	2	2	3			
OST 131	Keyboarding	1	2	2			
SPRING SEMESTER, 2009							
ACC 120	Principles of Accounting I	3	2	4			
CIS 110	Introduction to Computers	2	2	3			
ENG 112	Argument-Based Research	3	0	3			
SUMMER TERM, 2009							
COM 231	Public Speaking	3	0	3			
OST 134	Text Entry & Formatting	2	2	3			Day Class
OST 181	Introduction to Office Systems	2	2	3			Day Class
FALL SEMESTER, 2009							
OST 135	Advanced Text Entry & Format	3	2	4			
OST 136	Word Processing	2	2	3			
OST 164	Text Editing Applications	3	0	3			Evening Class
OST 184	Records Management	2	2	3			
SPRING SEMESTER, 2010							
CIS 165	Desktop Publishing I	2	2	3			
OST 223	Machine Transcription I	1	2	2			
OST 236	Advanced Word/Information Processing	2	2	3			
OST 284	Emerging Technologies	1	2	2			Evening Class

(Over)

SUMMER TERM, 2010

OST 224 Machine Transcription II 1 2 2
 Humanities Elective

FALL SEMESTER, 2010

CTS 130 Spreadsheet 2 2 3
 COE 110 World of Work 1 0 1
 COE 112 Co-op Work Experience 0 20 2
 OST 289 Admin Office Management 2 2 3
 Social Science Elective

Required Courses Credit Hours 65
 Humanities Elective Credit Hours 3
 Social Science Elective Credit Hours 3

TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 71

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, MUS 110, PHI 215, PHI 240, REL 110, REL 211

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Summer Semester 2008	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY OFFICE SYSTEMS TECHNOLOGY WORD PROCESSING OPTION (C25360) Certificate Day and Evening Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Class	Hours Lab	Credit	Grade	Semester	Remarks
CIS 110 Introduction to Computers	2	2	3			
CIS 165 Desktop Publishing I	2	2	3			
OST 134 Text Entry and Formatting	2	2	3			
OST 136 Word Processing	2	2	3			
OST 164 Text Editing Applications	3	0	3			
OST 289 Admin Office Management	2	2	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Fall Term 2007	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY OCCUPATIONAL THERAPY ASSISTANT (A45500) Associate Degree Day Program	Effective Summer Term 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours				Grade	Semester	Remarks			
			Class	Lab	Clinical	Credit						
6 Semesters												
SUMMER TERM, 2008												
ACA	111	College Student Success	1	0	0	1						
BIO	168	Anatomy & Physiology I	3	3	0	4						
ENG	111	Expository Writing*	3	0	0	3						
OTA	110	Fundamentals of OT	2	3	0	3						
PSY	150	General Psychology	3	0	0	3						
FALL SEMESTER, 2008												
BIO	169	Anatomy & Physiology II	3	3	0	4						
ENG	112	Argument-Based Research	3	0	0	3						
OTA	120	OT Media I	1	3	0	2						
OTA	140	Professional Skills I	0	3	0	1						
PSY	281	Abnormal Psychology	3	0	0	3						
SPRING SEMESTER, 2009												
OTA	130	Assessment Skills	2	3	0	3						
OTA	161	Fieldwork I - Placement 1	0	0	3	1						
OTA	162	Fieldwork I - Placement 2	0	0	3	1						
OTA	170	Physical Dysfunction	2	3	0	3						
OTA	180	Psychosocial Dysfunction	2	3	0	3						
SUMMER TERM, 2009												
OTA	164	Fieldwork I - Placement 4	0	0	3	1						
OTA	250	Life Span Skills II	2	3	0	3						
OTA	240	Professional Skills II	0	3	0	1						
PSY	241	Developmental Psychology	3	0	0	3						
FALL SEMESTER, 2009												
OTA	150	Life Span Skills I	2	3	0	3						
OTA	163	Fieldwork I - Placement 3	0	0	3	1						
OTA	220	OT Media II	1	6	0	3						
OTA	245	Professional Skills III	0	3	0	1						
		Humanities Elective										

(Over)

SPRING SEMESTER, 2010

OTA	260	Fieldwork II - Placement 1**	0	0	18	6
OTA	261	Fieldwork II - Placement 2**	0	0	18	6
OTA	280	Professional Transition	0	2	0	1

Required Course Credit Hours**67****Humanities Elective Credit Hours****3****TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE****70**

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVES:

* ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

**OTA 260 and OTA 261 must be completed within 18 months of other coursework.

Note: To graduate from the program, students must demonstrate computer competency. That competency may be demonstrated by a satisfactory score on the computer competency test, by credit by exam, or by completing CIS110 or CIS 113.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2007

PLAN OF STUDY PHARMACY TECHNOLOGY (D45580) Diploma Day Program

Effective Spring Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours				Credit	Grade	Semester	Remarks
	Class	Lab	Clinical					
3 Semesters								
SPRING SEMESTER 2008 or SUMMER TERM 2008								
ACA 111	College Student Success	1	0	0	1			
BIO 163	Basic Anatomy & Physiology	4	2	0	5			
PHM 110	Introduction to Pharmacy	3	0	0	3			
PHM 111	Pharmacy Practice I	3	3	0	4			
PHM 115	Pharmacy Calculations*	3	0	0	3			
FALL SEMESTER, 2008								
ENG 111	Expository Writing*	3	0	0	3			
PHM 112	Pharmacy Practice II	3	3	0	4			
PHM 118	Sterile Products	3	3	0	4			
PHM 120	Pharmacology I	3	0	0	3			
SPRING SEMESTER, 2009								
PHM 125	Pharmacology II	3	0	0	3			
PHM 138	Pharmacy Clinical	0	0	24	8			
PHM 140	Trends in Pharmacy	2	0	0	2			
PSY 118	Interpersonal Psychology	3	0	0	3			
TOTAL SEMSTER HOURS REQUIRED FOR DIPLOMA					46			

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070M, RED 070, RED 080, OR RED 090 may be required based on placement test results. CIS 070, CIS 113, or CIS 110 may also be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Spring Semester 2000-2001	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY PHARMACY TECHNOLOGY Retail Pharmacy Technician Option (C45580R) Certificate	Effective Spring Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours				Credit	Grade	Semester	Remarks
	Class	Lab	Clinical					

4 Semesters

SPRING SEMESTER, 2008 or SUMMER TERM, 2008

PHM	110	Introduction to Pharmacy	3	0	0	3			
PHM	111	Pharmacy Practice I	3	3	0	4			
PHM	115	Pharmacy Calculations*	3	0	0	3			

FALL SEMESTER 2008

PHM	120	Pharmacology I*	3	0	0	3			
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SPRING SEMESTER, 2009

PHM	125	Pharmacology II	3	0	0	3			
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TOTAL SEMSTER HOURS REQUIRED FOR CERTIFICATE **16**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070M, RED 070, RED 080, OR RED 090 may be required based on placement test results. CIS 070, CIS 113, or CIS 110 may also be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2007

PLAN OF STUDY
PRACTICAL NURSING (D45660)
Diploma
Day Program

Effective Summer Term
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Credit	Grade	Semester	Remarks
			Class	Lab	Clinical				
SUMMER TERM, 2008									
BIO	163	Basic Anatomy & Physiology	4	2	0	5			
PSY	110	Life Span Development	3	0	0	3			
FALL SEMESTER, 2008									
NUR	101	Practical Nursing I	7	6	6	11			
SPRING SEMESTER, 2009									
NUR	102	Practical Nursing II	8	0	12	12			
SUMMER TERM, 2009									
ENG	111	Expository Writing	3	0	0	3			
FALL SEMESTER, 2009									
NUR	103	Practical Nursing III	6	0	12	10			
TOTAL SEMSTER HOURS REQUIRED FOR DIPLOMA						44			

Note: Students must pass all Nursing courses and BIO 163 with a B (80% or better).

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2007

**PLAN OF STUDY
RESPIRATORY THERAPY (A45720)**

Effective Fall Semester
2008-2009

Associate Degree
Day Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours				Grade	Semester	Remarks
			Class	Lab	Clinical	Credit			
5 Semesters									
FALL SEMESTER, 2008									
ACA	111	College Student Success	1	0	0	1			
BIO	168	Anatomy & Physiology I	3	3	0	4			
ENG	111	Expository Writing*	3	0	0	3			
MAT	121	Algebra/Trigonometry I*	2	2	0	3			
RCP	110	Introduction to Respiratory Care	3	3	0	4			
RCP	132	RCP Clinical Practice I	0	0	6	2			
SPRING SEMESTER, 2009									
BIO	169	Anatomy & Physiology II	3	3	0	4			
PSY	150	General Psychology	3	0	0	3			
RCP	111	Therapeutics/Diagnostics	4	3	0	5			
RCP	145	RCP Clinical Practice II	0	0	15	5			
SUMMER TERM, 2009									
RCP	112	Patient Management	3	3	0	4			
RCP	115	C-P Pathophysiology	2	0	0	2			
RCP	153	RCP Clinical Practice III	0	0	9	3			
FALL SEMESTER, 2009									
CIS	110	Introduction to Computers	2	2	0	3			
RCP	210	Critical Care Concepts	3	3	0	4			
RCP	235	RCP Clinical Practice IV	0	0	15	5			
		Humanities Elective							
SPRING SEMESTER, 2010									
ENG	112	Argument-Based Research	3	0	0	3			
RCP	211	Advanced Monitoring Procedures	3	3	0	4			
RCP	215	Career Prep-Advanced Level	0	3	0	1			
RCP	245	RCP Clinical Practice V	0	0	15	5			
Required Course Credit Hours						68			
Humanities Elective Credit Hours						3			
TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE						71			

(Over)

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

6/7/2007

New Spring Semester 2003	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY COMMUNITY SPANISH INTERPRETER Community Spanish Facilitator Option* (C55370F) Certificate Evening Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, any required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
SPA 221 Spanish Conversation	3	0	3			
SPA 231 Reading and Composition	3	0	3			
SPI 213 Review of Grammar	3	0	3			
SPI 214 Introduction to Translation	3	0	3			
SPI 113 Introduction to Spanish Interpreting	3	0	3			
SPI 114 Analytical Skills Spanish Interpreting	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

*A prerequisite of the program is showing proficiency at the Intermediate Spanish level as determined by the program director, or by completion of SPA 212. ENG 070, 080, 090, 090A, and CIS 110 may be required based on placement test results.

Note: Students, whose native language is not English, may wish to consider improving their English language skills by taking EFL 181 and EFL 182.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Spring Semester 2003	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY COMMUNITY SPANISH INTERPRETER Community Spanish Facilitator Option* (C55370F) Certificate Evening Program	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, any required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
SPA 221 Spanish Conversation	3	0	3			
SPA 231 Reading and Composition	3	0	3			
SPI 213 Review of Grammar	3	0	3			
SPI 214 Introduction to Translation	3	0	3			
SPI 113 Introduction to Spanish Interpreting	3	0	3			
SPI 114 Analytical Skills Spanish Interpreting	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

*A prerequisite of the program is showing proficiency at the Intermediate Spanish level as determined by the program director, or by completion of SPA 212. ENG 070, 080, 090, 090A, and CIS 110 may be required based on placement test results.

Note: Students, whose native language is not English, may wish to consider improving their English language skills by taking EFL 181 and EFL 182.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Fall Semester
2008

PLAN OF STUDY
COMMUNITY SPANISH INTERPRETER
Medical Spanish Facilitator Certificate (C55370M)
Evening Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, any required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
MED 121 Medical Terminology I	3	0	3			
MED 122 Medical Terminology II	3	0	3			
SPI 111 Cultural and Ethical Issues	3	0	3			
SPI 221 Consecutive Interp I	3	0	3			
SPI 222 Consecutive Interp II	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 15

*A prerequisite of the program is completion of the Community Spanish Facilitator Certificate option (C55370F) or successful completion of a translation/interpretation placement test. ENG 070, 080, 090, 090A, and CIS 110 may be required based on placement test results.

Note: Students, whose native language is not English, may wish to consider improving their English language skills by taking EFL 181 and EFL 182.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

New Spring Semester
2003

PLAN OF STUDY COMMUNITY SPANISH INTERPRETER Spanish Language Option* (C55370L)

Effective Fall Semester
2008-2009

Certificate
Day and Evening Program

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, any required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours			Grade	Semester	Remarks
	Class	Lab	Credit			
SPA 211 Intermediate Spanish I*	3	0	3			
SPA 212 Intermediate Spanish II	3	0	3			
HIS 151 Hispanic Civilization (in English)	3	0	3			
SPA 221 Spanish Conversation	3	0	3			
SPI 213 Review of Grammar	3	0	3			
SPA 231 Reading and Composition	3	0	3			

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

*A prerequisite of the program is showing proficiency at the Beginning Spanish II level as determined by the program director, or completion of SPA 112 and required lab (SPA 182). ENG 070, 080, 090, 090A, and CIS 110 may be required based on placement test results.

We recommend that students who need to take SPA 212 (Intermediate Spanish), and who intend to continue with the Community Spanish Facilitator Option Certificate (C55370F), also take the corresponding SPA 281 lab with the SPA 212. The lab will reinforce grammatical concepts that are essential to the art of translation and interpretation

Note: Students, whose native language is not English, may wish to consider improving their English language skills by taking EFL 181 and EFL 182.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Spring Semester
2004 -2005

PLAN OF STUDY SURGICAL TECHNOLOGY (D45740) Diploma Day Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title	Hours				Credit	Grade	Semester	Remarks
	Class	Lab	Clinical					

3 Semesters

FALL SEMESTER, 2008

BIO	168	Anatomy & Physiology I	3	3	0	4			
ENG	111	Expository Writing	3	0	0	3			
PSY	150	General Psychology	3	0	0	3			
SUR	110	Introduction to Surgical Technology	3	0	0	3			
SUR	111	Periop Patient Care	5	6	0	7			

SPRING SEMESTER, 2009

BIO	169	Anatomy & Physiology II	3	3	0	4			
SUR	122	Surgical Procedures I	5	3	0	6			
SUR	123	Surgical Clinical Practice I	0	0	21	7			

SUMMER TERM, 2009

SUR	134	Surgical Procedures II	5	0	0	5			
SUR	135	Surgical Clinical Practice II	0	0	12	4			
SUR	137	Professional Success Preparation	1	0	0	1			

TOTAL SEMESTER HOURS REQUIRED FOR DIPLOMA

47

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, OR RED 090 may be required based on placement test results.

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V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

Revised Spring Semester
2007

DURHAM TECHNICAL COMMUNITY COLLEGE
PLAN OF STUDY
EARLY CHILDHOOD EDUCATION
Teacher Associate Concentration (A5522B)
Associate Degree
Afternoon and Evening Program

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

				Hours		Grade	Semester	Remarks			
Course	Title	Class	Lab	Clinical	Credit						
5 Semesters											
FALL SEMESTER, 2008											
ACA	111	College Student Success	1	0	0	1					
EDU	153	Heath, Safety & Nutrition	3	0	0	3					
EDU	119	Early Childhood Education	4	0	0	4					
EDU	144	Child Development I	3	0	0	3					
EDU	275	Effective Teacher Training	2	0	0	2					
ENG	111	Expository Writing*	3	0	0	3					
SPRING SEMESTER, 2009											
EDU	118	Teacher Associate Principles & Practices	3	0	0	3					
EDU	145	Child Development II	3	0	0	3					
EDU	280	Language and Literacy Experiences	3	0	0	3					
EDU	235	School-Age Development & Programs	2	0	0	2					
ENG	113	Literature-Based Research	3	0	0	3					
		Humanities Elective	3	0	0	3					
SUMMER TERM, 2009											
CIS	110	Introduction to Computers	2	2	0	3					
MAT	140	Survey of Mathematics*	3	0	0	3					
MAT	140A	Survey of Mathematics Lab	0	2	0	1					
PSY	150	General Psychology	3	0	0	3					
FALL SEMESTER, 2009											
COE	111	Co-op Work Experience I	0	0	10	1					
EDU	146	Child Guidance	3	0	0	3					
EDU	271	Educational Technology	2	2	0	3					
EDU	151	Creative Activities	3	0	0	3					
EDU	186	Reading and Writing Methods	3	0	0	3					
PSY	241	Developmental Psychology	3	0	0	3					
		Major Elective	3	0	0	3					

SPRING SEMESTER, 2010

COE	121	Co-op Work Experience II	0	0	10	1
EDU	131	Child, Family & Community	3	0	0	3
EDU	221	Children with Exceptionalities	3	0	0	3
EDU	257	Math Methods and Materials	2	2	0	3
EDU	285	Internship Exp-School Age	1	0	0	1

Required Courses Credit Hours 67**Major Elective Credit Hours 3****Humanities Elective Credit Hours 3****TOTAL SEMESTER HOURS REQUIRED FOR A.A.S. DEGREE 73**

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Major Elective: EDU 161, EDU 163, EDU 243, EDU 245

MAJOR ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

PLAN OF STUDY

EARLY CHILDHOOD EDUCATION

TEACHER ASSOCIATE CONCENTRATION

INSTRUCTIONAL APPRENTICE ASSOCIATE OPTION (C5522BI)

Certificate

Afternoon and Evening Program

Revised
Spring 2005

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have advanced approval. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation.

Course Title			Hours			Grade	Semester	Remarks
	Class		Lab	Credit				
EDU 131	Child, Family, & Community	3	0	3				
EDU 118	Teacher Associate Principles & Practices	3	0	3				
EDU 144	Child Development I	3	0	3				
CIS 110	Introduction to Computers	2	2	3				
EDU 145	Child Development II	3	0	3				
EDU 275	Effective Teacher Training	2	0	2				

TOTAL SEMESTER HOURS REQUIRED FOR CERTIFICATE 17

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

DURHAM TECHNICAL COMMUNITY COLLEGE

Revised Fall Semester
2007

PLAN OF STUDY Web Technologies Associate Degree (A25290)

Effective Fall Semester
2008-2009

The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours		Credit	Grade	Semester Offered			Remarks
			Class	Lab			Fall 08	Spr09	Sum09	
ACA	111	College Student Success	1	0	1		○ ●	○ ●	○ ●	
General Education Courses										
ENG	111	Expository Writing*	3	0	3		○ ● ○	○ ● ○	○ ● ○	
ENG	112	Argument-Based Research	3	0	3		○ ● ○	○ ● ○	○ ● ○	
MAT	140	Survey of Mathematics*	3	0	3		○ ● ○	○ ●	○ ●	
MAT	140A	Survey of Mathematics Lab	0	2	1		○ ● ○	○ ●	○ ●	
COM	231	Public Speaking	3	0	3		○ ● ○	○ ● ○	○ ● ○	
		Social Science Elective			3		○ ● ○	○ ● ○	○ ● ○	
		Humanities Elective			3		○ ● ○	○ ● ○	○ ● ○	
Technical Core Courses										
BUS	110	Introduction to Business	3	0	3		○ ● ○	○ ● ○	○ ●	
CIS	110	Introduction to Computers	2	2	3		○ ● ○	○ ● ○	○ ●	
CIS	115	Intro to Prog & Logic	2	3	3		○ ●	○ ●	○	
DBA	110	Database Concepts	2	3	3		○ ●	● ○	○	
NET	125	Networking Basics	1	4	3		○ ●	○	○ ●	
NOS	110	Operating System Concepts	2	3	3		○ ●	○ ●	○	
SEC	110	Security Concepts	3	0	3		○ ●	○ ●	○	
Web Technologies										
WEB	110	Internet/Web Fundamentals	2	2	3		○ ● ○	● ○		
WEB	115	Web Markup and Scripting	2	2	3			●		
WEB	120	Intro Internet Multimedia	2	2	3		○			
WEB	140	Web Development Tools	2	2	3			●		
WEB	210	Web Design	2	2	3		●			
WEB	230	Implementing Web Serv	2	2	3			●		
WEB	250	Database Driven Websites	2	2	3		●			
COE	110	World of Work	1	0	1		○	○		
COE	111	Co-op Work Experience I	0	10	1		○	○		
		Major Elective I			3					
		Major Elective II			3					
Required Courses Credit Hours					58	○ Day ● Evening ○ Online				
Major Electives Credit Hours					6					
Humanities Elective Credit Hours					3					
Social Science Elective Credit Hours					3					
Total Semester Hours Required for A.A.S. Degree					70					

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

Major Electives – Select 6 credit hours from the list below.

Course Title			Hours		Credit	Semester Offered				Remarks
			Class	Lab		Grade	Fall 08	Spr09	Sum09	
CSC	139	Visual BASIC Prog	2	3	3			●		
CSC	239	Adv Visual BASIC Prog	2	3	3		●			
CSC	151	JAVA Programming	2	3	3		●			
CSC	251	Adv JAVA Programming	2	3	3			●		
CSC	153	C# Programming	2	3	3		○			
CSC	253	Adv C# Programming	2	3	3			○		
DBA	115	Database Applications	2	2	3			○		
DBA	120	Database Programming I	2	2	3		●			
NOS	120	Linux/UNIX Single User	2	2	3		○ ●	○ ●	●	
NOS	130	Windows Single User	2	2	3		○ ●	○ ●		

Humanities Electives: ART 111, ART 114, ART 115, ART 117, DRA 122, ENG 231, ENG 232, ENG 233, ENG 241, ENG 242, ENG 243, ENG 251, ENG 252, ENG 261, ENG 262, FRE 211, GER 211, HUM 110, HUM 115, HUM 121, HUM 150, HUM 160, ITA 211, MUS 110, PHI 215, PHI 240, POR 211, REL 110, REL 211, SPA 211, SPA 212

HUMANITIES ELECTIVE:

Social Science Electives: ANT 210, ANT 220, ECO 251, ECO 252, GEO 111, GEO 112, HIS 111, HIS 112, HIS 121, HIS 122, HIS 131, HIS 132, HIS 236, POL 120, POL 220, PSY 150, PSY 237, PSY 241, PSY 263, PSY 281, SOC 210, SOC 213, SOC 215, SOC 220, SOC 225

SOCIAL SCIENCE ELECTIVE:

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.

New Fall Semester 2006	DURHAM TECHNICAL COMMUNITY COLLEGE PLAN OF STUDY Web Technologies Web Designer Option (C25290I) Certificate	Effective Fall Semester 2008-2009
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The following plan of study is the standard curriculum for the above program. Any deviation from the prescribed curriculum must have approval in advance. All prerequisite course requirements must also be met. To graduate the student must successfully complete all the required courses, the required credit hours for electives, and have at least a 2.0 overall grade point average. This plan of study is subject to change when the college thinks such action is in the best interest of the student or the program. It is the responsibility of the student to meet requirements for graduation. If accepted students do not enroll for three successive semesters, they must contact the Admissions office to determine if readmission is necessary.

Course Title			Hours			Grade	Semester	Remarks
			Class	Lab	Credit			
CIS 110	Introduction to Computers		2	2	3			
CIS 115	Intro to Prog & Logic		2	3	3			
WEB 110	Internet/Web Fundamentals		2	2	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 SEMESTER HOURS REQUIRED FOR CERTIFICATE 18

*ENG 070, ENG 080, ENG 090, ENG 090A, MAT 050, MAT 060, MAT 070, RED 070, RED 080, or RED 090 may be required based on placement test results.

V.A. Students: An approval signature from the V.A. Office is required before registering. Some courses may not be certifiable.