

Course Descriptions

COURSE NUMBERING SYSTEM

Course designations consist of a three-letter course prefix followed by a three-digit number. The course number is followed by the title of the course. Course titles are followed by a sequence of four numbers: (1) class lecture hours per week; (2) lab hours per week; (3) clinical or shop or work experience hours per week; and (4) semester-hour credits (SHC) earned when the course is successfully completed.

Developmental education courses have numbers between 050-095. Examples: ENG 080, MAT 050.

Courses that can only be used for diploma and certificate curriculum have numbers between 100-109 and 200-209. Examples: ENG 102, PSY 101.

All associate degree, diploma, and certificate curriculum courses have numbers between 110-199 and 210-299. Examples: ENG 112, SOC 210.

College Transfer courses are identified in course descriptions with the statements: "This course has been approved to satisfy the Comprehensive Articulation agreement general education core requirement." or "This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement." These courses are approved for transfer to the 16 universities of The University of North Carolina System.

PREREQUISITES AND COREQUISITES

Many courses have prerequisites--other courses that must be completed prior to enrollment. For example, a student must complete PSY 150 before enrolling in PSY 241.

Many courses have developmental English, mathematics, or reading course prerequisites: for example, MAT 080 must be completed before taking MAT 155. To gain admission to the curriculum courses, students must either pass the appropriate developmental prerequisites or make appropriate scores on the ASSET or COMPASS placement inventory that measures skills in English, mathematics, and reading.

Corequisites are courses that are generally taken at the same time as other related courses: for example, BIO 140 with BIO 140A. In many cases, corequisites may be taken at the same time or earlier. For example, RED 090 is a corequisite for BUS 110. Students may either complete RED 090 before taking BUS 110 or they may take RED 090 at the same time as BUS 110.

	Class	Work Exp/		
		Lab	Clinical	Credit
ACA 111 College Student Success	1	0	0	1
Prerequisites: None Corequisites: None This course introduces the college's physical, academic, and social environment and promotes the personal development essential for success. Topics include campus facilities and resources; policies, procedures, and programs; study skills; and life management issues such as health, self-esteem, motivation, goal setting, diversity, and communication. Upon completion, students should be able to function effectively within the college environment to meet their educational objectives.				
ACA 118 College Study Skills	1	2	0	2
Prerequisites: None Corequisites: None This course covers skills and strategies designed to improve study behaviors. Topics include time management, note taking, test taking, memory techniques, active reading strategies, critical thinking, communication skills, learning styles, and other strategies for effective learning. Upon completion, students should be able to apply appropriate study strategies and techniques to the development of an effective study plan.				
ACA 122 College Transfer Success	1	0	0	1
Prerequisites: None Corequisites: None This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college 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.				
ACA 111, ACA 118, and ACA 122 are interchangeable. ACA 118 or ACA 122 may be substituted for ACA 111. Only one ACA course can be used to fulfill graduation requirements.				
ACC 111 Financial Accounting	3	0	0	3
Prerequisites: None Corequisites: None This course introduces the basic framework of accounting. Emphasis is placed on the accounting cycle and financial statement preparation and analysis. 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.				

	Class	Work Exp/		
		Lab	Clinical	Credit
ACC 115 College Accounting	3	2	0	4
Prerequisites: MAT 070, RED 080 Corequisites: RED 090 This course introduces basic accounting principles for a business. Topics include the complete accounting cycle with end-of-period statements, bank reconciliation, payrolls, and petty cash. Upon completion, students should be able to demonstrate an understanding of accounting principles and apply those skills to a business organization. This course is not intended as a substitute for ACC 120.				
ACC 120 Principles of Financial Accounting	3	2	0	4
Prerequisites: MAT 070, RED 090 Corequisites: MAT 140 This course introduces business decision-making accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations. This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.				
ACC 121 Principles of Managerial Accounting	3	2	0	4
Prerequisites: ACC 120 with minimum grade of "C" Corequisites: None This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision-making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems. This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.				
ACC 122 Principles of Financial Acct II	3	0	0	3
Prerequisites: ACC 120 with minimum grade of "C" Corequisites: None This course provides additional instruction in the financial accounting concepts and procedures introduced in ACC 120. Emphasis is placed on the analysis of specific balance sheet accounts, with in-depth instruction of the accounting principles applied to these accounts. Upon completion, students should be able to analyze data, prepare journal entries, and prepare reports in compliance with generally accepted accounting principles.				
ACC 129 Individual Income Taxes	2	2	0	3
Prerequisites: MAT 070, RED 090 Corequisites: 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.				

	Class	Work Exp/		Credit
		Lab	Clinical	
ACC 130 Business Income Taxes	2	2	0	3
Prerequisites: ACC 120 with minimum grade of "C" Corequisites: 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.				
ACC 149 Intro to Accounting Spreadsheets	1	2	0	2
Prerequisites: ACC 115 or ACC 120 Corequisites: None				
This course provides a working knowledge of computer spreadsheets and their use in accounting. Topics include pre-programmed problems, model-building problems, beginning-level macros, graphics, and what-if analysis enhancements of template problems. Upon completion, students should be able to use a computer spreadsheet to complete many of the tasks required in accounting.				
ACC 150 Accounting Software Applications	1	2	0	2
Prerequisites: ACC 115 or ACC 120, CIS 110 Corequisites: None				
This course introduces microcomputer applications related to accounting systems. Topics include general ledger, accounts receivable, accounts payable, inventory, payroll, and correcting, adjusting, and closing entries. Upon completion, students should be able to use a computer accounting package to solve accounting problems.				
ACC 151 Accounting Spreadsheet Applications1		2	0	2
Prerequisites: ACC 149 Corequisites: None				
This course is designed to facilitate the use of spreadsheet technology as applied to accounting principles. Emphasis is placed on using spreadsheet software as a problem-solving and decision-making tool. 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.				
ACC 220 Intermediate Accounting I	3	2	0	4
Prerequisites: ACC 120 and ACC 121 or ACC 122 with minimum grade of "C" Corequisites: None				
This course is a continuation of the study of accounting principles with in-depth coverage of theoretical concepts and financial statements. Topics include generally accepted accounting principles and 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.				

	Class	Work Exp/		Credit
		Lab	Clinical	
ACC 221 Intermediate Accounting II	3	2	0	4
Prerequisites: ACC 220 with minimum grade of "C" Corequisites: None				
This course is a continuation of ACC 220. Emphasis is placed on special problems which may include leases, bonds, investments, ratio analyses, present value applications, accounting changes, and corrections. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.				
ACC 225 Cost Accounting	3	0	0	3
Prerequisites: ACC 121 Corequisites: None				
This course introduces the nature and purposes of cost accounting as an information system for planning and control. Topics include direct materials, direct labor, factory overhead, process, job order, and standard cost systems. Upon completion, students should be able to demonstrate an understanding of the principles involved and display an analytical problem-solving ability for the topics covered.				
ANT 220 Cultural Anthropology	3	0	0	3
Prerequisites: ENG 111 Corequisites: None				
This course introduces the nature of human culture. Emphasis is placed on cultural theory, methods of fieldwork, and cross-cultural comparisons in the areas of ethnology, language, and the cultural past. Upon completion, students should be able to demonstrate an understanding of basic cultural processes and how cultural data are collected and analyzed. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
ART 111 Art Appreciation	3	0	0	3
Prerequisites: RED 090 Corequisites: ENG 090				
This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
ART 131 Drawing I	0	6	0	3
Prerequisites: None Corequisites: None				
This course introduces the language of drawing and the use of various drawing materials. Emphasis is placed on drawing techniques, media, and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
AST 111 Descriptive Astronomy	3	0	0	3
Prerequisites: RED 090 Corequisites: AST 111A, ENG 090, MAT 080 This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate an understanding of the universe around them. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
AST 111A Descriptive Astronomy Lab	0	2	0	1
Prerequisites: None Corequisites: AST 111 The course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate an understanding of the universe around them. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
ATR 218 Computer Integrated Manufacturing2		3	0	3
Prerequisites: ELC 128 Corequisites: None This course introduces high technology systems which are currently being used in new automated manufacturing facilities. Topics include integration of robots and work cell components, switches, proxies, vision and photoelectric sensors, with the automated control and data gathering systems. Upon completion, students should be able to install, program, and troubleshoot an automated manufacturing cell and its associated data communications systems.				
BIO 094 Concepts of Human Biology	3	2	0	4
Prerequisites: None Corequisites: RED 090 This course focuses on fundamental concepts of human biology. Topics include terminology, biochemistry, cell biology, tissues, body systems, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level anatomy and physiology courses.				
BIO 110 Principles of Biology	3	3	0	4
Prerequisites: ENG 090, MAT 070, RED 090 Corequisites: None This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, taxonomy, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				

	Class	Lab	Work Exp/ Clinical	Credit
BIO 111 General Biology I	3	3	0	4
Prerequisites: ENG 090, MAT 070, RED 090 Corequisites: None This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, cell structure and function, metabolism and energy transformation, genetics, evolution, classification, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
BIO 112 General Biology II	3	3	0	4
Prerequisites: BIO 111 Corequisites: None This course is a continuation of BIO 111. Emphasis is placed on organisms, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
BIO 120 Introductory Botany	3	3	0	4
Prerequisites: BIO 110 or BIO 111 Corequisites: None This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
BIO 130 Introductory Zoology	3	3	0	4
Prerequisites: BIO 110 or BIO 111 Corequisites: None This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
BIO 140 Environmental Biology	3	0	0	3
Prerequisites: ENG 090, MAT 070, RED 090 Corequisites: BIO 140A This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				

	Class	Lab	Work Exp/ Clinical	Credit
BIO 140A Environmental Biology Lab	0	3	0	1
Prerequisites: None Corequisites: BIO 140 This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
BIO 163 Basic Anatomy and Physiology	4	2	0	5
Prerequisites: ENG 090, MAT 070, RED 090 Corequisites: None This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
BIO 165 Anatomy and Physiology I	3	3	0	4
Prerequisites: ENG 090, MAT 070, RED 090 Corequisites: None This course is the first of a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
BIO 166 Anatomy and Physiology II	3	3	0	4
Prerequisites: BIO 165 Corequisites: None This course is the second in a two-course sequence which provides a comprehensive study of the anatomy and physiology of the human body. Topics include the structure, function, and interrelationship of organ systems with emphasis on the processes which maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and the interrelationships of all body systems. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
BIO 275 Microbiology	3	3	0	4
Prerequisites: BIO 110, BIO 111, BIO 163, BIO 165 or BIO 168 Corequisites: 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 premajor and/or elective course requirement.				
BPR 111 Blueprint Reading	1	2	0	2
Prerequisites: None Corequisites: MAT 050 This course introduces the basic principles of blueprint reading. Topics include line types, orthographic projections, dimensioning methods, and notes. Upon completion, students should be able to interpret basic blueprints and visualize the features of a part.				
BPR 121 Blueprint Reading: Mechanical	1	2	0	2
Prerequisites: BPR 111 Corequisites: 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.				
BTC 181 Basic Lab Techniques	3	3	0	4
Prerequisites: None Corequisites: None This course introduces the basic skills and knowledge necessary in a biological or chemical laboratory. Emphasis is placed on good manufacturing practices, safety, solution preparation, and equipment operation and maintenance following standard operating procedures. Upon completion, students should be able to prepare and perform basic laboratory procedures using labware, solutions, and equipment according to prescribed protocols.				
BUS 110 Introduction to Business	3	0	0	3
Prerequisites: None Corequisites: RED 090 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 premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
BUS 115 Business Law I	3	0	0	3
Prerequisites: None Corequisites: RED 090 This course introduces the ethics and legal framework of business. Emphasis is placed on contracts, negotiable instruments, Uniform Commercial Code, and the working of the court systems. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
BUS 116 Business Law II	3	0	0	3
Prerequisites: BUS 115 Corequisites: None This course continues the study of ethics and business law. Emphasis is placed on bailments, sales, risk-bearing, forms of business ownership, and copyrights. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations.				
BUS 121 Business Mathematics	2	2	0	3
Prerequisites: MAT 070 Corequisites: RED 090 This course covers fundamental mathematical operations and their application to business problems. Topics include payroll, pricing, interest and discount, commission, taxes, and other pertinent uses of mathematics in the field of business. Upon completion, students should be able to apply mathematical concepts to business.				
BUS 125 Personal Finance	3	0	0	3
Prerequisites: MAT 070, RED 090 Corequisites: None This course provides a study of individual and family financial decisions. Emphasis is placed on building useful skills in buying, managing finances, increasing resources, and coping with current economic conditions. Upon completion, students should be able to develop a personal financial plan.				
BUS 137 Principles of Management	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
BUS 153 Human Resource Management	3	0	0	3
Prerequisites: RED 090 Corequisites: None This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns.				
BUS 228 Business Statistics	2	2	0	3
Prerequisites: MAT 140 Corequisites: None This course introduces the use of statistical methods and tools in evaluating research data for business applications. Emphasis is placed 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 premajor and/or elective course requirement.				
BUS 230 Small Business Management	3	0	0	3
Prerequisites: RED 090 Corequisites: None This course introduces the challenges of entrepreneurship including the startup and operation of a small business. Topics include market research techniques, feasibility studies, site analysis, financing alternatives, and managerial decision making. Upon completion, students should be able to develop a small business plan.				
BUS 239 Business Applications Seminar	1	2	0	2
Prerequisites: ACC 120, BUS 115, BUS 137, ECO 151 or 251 or 252, MKT 120 Corequisites: None This course is designed as a capstone course for Business Administration majors. Emphasis is placed on decision making in the areas of management, marketing, production, purchasing, and finance. Upon completion, students should be able to apply the techniques, processes, and vital professional skills needed in the work place.				
BUS 260 Business Communication	3	0	0	3
Prerequisites: ENG 111 Corequisites: None This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the workplace.				

	Class	Lab	Work Exp/ Clinical	Credit
BUS 261 Diversity in Management Prerequisites: RED 090 Corequisites: 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 that minimize policies, attitudes, and stereotypical behaviors that block effective team building.	3	0	0	3
BUS 280 REAL Small Business Prerequisites: None Corequisites: None This course introduces hands-on techniques and procedures for planning and opening a small business, including the personal qualities needed for entrepreneurship. Emphasis is placed on market research, finance, time management, and day-to-day activities of owning/operating a small business. Upon completion, students should be able to write and implement a viable business plan and seek funding.	4	0	0	4
CET 111 Computer Upgrade/Repair I Prerequisites: None 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.	2	3	0	3
CET 222 Computer Architecture Prerequisites: CET 111 Corequisites: None This course introduces the organization and design philosophy of computer systems with respect to resource management, throughput, and operating system interaction. Topics include instruction sets, registers, data types, memory management, virtual memory, cache, storage management, multiprocessing, and pipelining. Upon completion, students should be able to evaluate system hardware and resources for installation and configuration purposes.	2	0	0	2
CHM 131 Introduction to Chemistry Prerequisites: RED 090 Corequisites: CHM 131A, ENG 090, MAT 080 This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.	3	0	0	3

	Class	Lab	Work Exp/ Clinical	Credit
CHM 131A Introduction to Chemistry Lab Prerequisites: None Corequisites: CHM 131 This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.	0	3	0	1
CHM 151 General Chemistry I Prerequisites: ENG 090, MAT 080, RED 090 Corequisites: None This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.	3	3	0	4
CHM 152 General Chemistry II Prerequisites: CHM 151 Corequisites: None This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.	3	3	0	4
CHM 251 Organic Chemistry I Prerequisites: CHM 152 Corequisites: None This course provides a systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of hydrocarbons, alkyl halides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.	3	3	0	4

	Class	Work Exp/		
		Lab	Clinical	Credit
CHM 252 Organic Chemistry II	3	3	0	4
Prerequisites: CHM 251 Corequisites: None This course provides continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multi-step synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of organic concepts as needed to pursue further study in chemistry and related professional fields. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
CIS 110 Introduction to Computers	2	2	0	3
Prerequisites: ENG 080, MAT 070, OST 080 Corequisites: RED 090 This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (quantitative option).				
CIS 115 Intro to Prog & Logic	2	3	0	3
Prerequisites: ENG 090, MAT 080 Corequisites: None This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural science/mathematics (quantitative option).				
CJC 111 Introduction to Criminal Justice	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Work Exp/		
		Lab	Clinical	Credit
CJC 112 Criminology	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response.				
CJC 113 Juvenile Justice	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition.				
CJC 131 Criminal Law	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements.				
CJC 132 Court Procedure & Evidence	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence.				
CJC 141 Corrections	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
CJC 160 Terrorism: Underlying Issues Prerequisites: ENG 090, RED 090 Corequisites: None This course identifies the fundamental reasons why America is a target for terrorists, covering various domestic/international terrorist groups and ideologies from a historical aspect. Emphasis is placed upon recognition of terrorist crime scene; weapons of mass destruction; chemical, biological, and nuclear terrorism; and planning consideration involving threat assessments. Upon completion, the student should be able to identify and discuss the methods used in terrorists' activities and complete a threat assessment for terrorists' incidents.	3	0	0	3
CJC 211 Counseling Prerequisites: ENG 090, RED 090 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.	3	0	0	3
CJC 212 Ethics & Community Relations Prerequisites: ENG 090, RED 090 Corequisites: None This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations.	3	0	0	3
CJC 215 Organization & Administration Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the components and functions of organization and administration as it applies to the agencies of the criminal justice system. Topics include operations/functions of organizations; recruiting, training, and retention of personnel; funding and budgeting; communications; span of control and discretion; and other related topics. Upon completion, students should be able to identify and discuss the basic components and functions of a criminal justice organization and its administrative operations.	3	0	0	3

	Class	Lab	Work Exp/ Clinical	Credit
CJC 221 Investigative Principles Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation.	3	2	0	4
CJC 222 Criminalistics Prerequisites: CJC 221 Corequisites: None This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence.	3	0	0	3
CJC 231 Constitutional Law Prerequisites: ENG 090, RED 090 Corequisites: None The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts.	3	0	0	3
CJC 233 Correctional Law Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces statutory/case law pertinent to correctional concepts, facilities, and related practices. Topics include examination of major legal issues encompassing incarceration, probation, parole, restitution, pardon, restoration of rights, and other related topics. Upon completion, students should be able to identify/discuss legal issues which directly affect correctional systems and personnel.	3	0	0	3
COE 111 Co-op Work Experience I Prerequisites: 9 SHC in the major core courses Corequisites: COE 115 This course provides work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.	0	0	10	1

	Class	Work Exp/		
		Lab	Clinical	Credit
COE 112 Co-op Work Experience I	0	0	20	2
Prerequisites: 9 SHC in the major core courses Corequisites: None This course provides work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.				
COE 115 Work Experience Seminar I	1	0	0	1
Prerequisites: 9 SHC in the major core courses Corequisites: COE 111 or COE 112 This course provides an opportunity to discuss fieldwork experiences with peers and faculty. Emphasis is placed on discussing application of concepts and principles from related course content to the fieldwork placement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes required in fieldwork experiences.				
COE 121 Co-op Work Experience II	0	0	10	1
Prerequisites: 15 SHC in the major core courses Corequisites: COE 125 This course provides work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.				
COE 125 Work Experience Seminar II	1	0	0	1
Prerequisites: 15 SHC in the major core courses, COE 111 for ECE majors Corequisites: COE 121 This course provides an opportunity to discuss fieldwork experiences with peers and faculty. Emphasis is placed on discussing application of concepts and principles from related course content to the fieldwork placement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes required in fieldwork experiences.				
COM 110 Introduction to Communication	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal, group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts in A.A. and A.S. programs (substitute). This cannot be used as a humanities in any A.A.S. program.				

	Class	Work Exp/		
		Lab	Clinical	Credit
COM 120 Interpersonal Communication	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts in A.A. and A.S. programs (substitute). This cannot be used as a humanities in any A.A.S. program.				
COM 231 Public Speaking	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts in A.A. and A.S. programs (substitute). This cannot be used as a humanities in any A.A.S. program.				
CSC 139 Visual BASIC Programming	2	3	0	3
Prerequisites: CIS 115 Corequisites: None This course introduces computer programming using the Visual BASIC programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
CSC 151 JAVA Programming	2	3	0	3
Prerequisites: CIS 115 Corequisites: None This course introduces computer programming using the JAVA programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods, including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion students should be able to design, code, test, debug JAVA language programs. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Work Exp/		Credit
		Lab	Clinical	
CTS 120 Hardware/Software Support	2	3	0	3
Prerequisites: CIS 110 Corequisites: None This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.				
CTS 130 Spreadsheet	2	2	0	3
Prerequisites: CIS 110 or OST 137 Corequisites: None This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.				
CTS 285 Systems Analysis & Design	3	0	0	3
Prerequisites: CIS 115 Corequisites: None This course introduces established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques.				
CTS 289 System Support Project	1	4	0	3
Prerequisites: CSC 139, CTS 285, DBA 110, NOS 120, NOS 230, SEC 110 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.				
DBA 110 Database Concepts	2	3	0	3
Prerequisites: CIS 110 Corequisites: None This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms.				

	Class	Work Exp/		Credit
		Lab	Clinical	
DFT 111 Technical Drafting I	1	3	0	2
Prerequisites: MAT 060, RED 090 Corequisites: None This course introduces basic drafting skills, equipment, and applications. Topics include sketching, measurements, lettering, dimensioning, geometric construction, orthographic projections and pictorials drawings, sections, and auxiliary views. Upon completion, students should be able to understand and apply basic drawing principles and practices.				
DFT 115 Architectural Drafting	1	2	0	2
Prerequisites: DFT 151 Corequisites: None This course introduces basic drafting practices used in residential and light commercial design. Topics include floor plans, foundations, details, electrical components, elevations, and dimensioning practice. Upon completion, students should be able to complete a set of working drawings for a simple structure.				
DFT 151 CAD I	2	3	0	3
Prerequisites: MAT 060, RED 080 Corequisites: None This course introduces CAD software as a drawing tool. Topics include drawing, editing, file management, and plotting. Upon completion, students should be able to produce and plot a CAD drawing.				
DFT 152 CAD II	2	3	0	3
Prerequisites: DFT 151 Corequisites: None This course introduces extended CAD applications. Emphasis is placed upon intermediate applications of CAD skills. Upon completion, students should be able to use extended CAD applications to generate and manage drawings.				
DFT 153 CAD III	2	3	0	3
Prerequisites: DFT 151 Corequisites: None This course introduces advanced CAD applications. Emphasis is placed upon advanced applications of CAD skills. Upon completion, students should be able to use advanced CAD applications to generate and manage data.				
DRA 111 Theatre Appreciation	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course provides a study of the art, craft, and business of the theatre. Emphasis is placed on the audience's appreciation of the work of the playwright, director, actor, designer, producer, and critic. Upon completion, students should be able to demonstrate a vocabulary of theatre terms and to recognize the contributions of various theatre artists. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				

	Class	Lab	Work Exp/ Clinical	Credit
ECO 151 Survey of Economics	3	0	0	3
Prerequisites: MAT 060, RED 090 Corequisites: ENG 090 This course introduces basic concepts of micro- and macroeconomics. Topics include supply and demand, optimizing economic behavior, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, government spending, and international trade. Upon completion, students should be able to explain alternative solutions for economic problems faced by private and government sectors. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
ECO 251 Principles of Microeconomics	3	0	0	3
Prerequisites: MAT 060, RED 090 Corequisites: ENG 090 This course introduces economic analysis of individual, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
ECO 252 Principles of Macroeconomics	3	0	0	3
Prerequisites: MAT 060, RED 090 Corequisites: ENG 090 This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
EDU 118 Princ & Prac of Inst Asst	3	0	0	3
Prerequisites: ENG 080, RED 080 Corequisites: None This course covers the instructional assistant's role in the educational system. Topics include history of education, professional responsibilities and ethics, cultural diversity, communication skills, and identification of the optimal learning environment. Upon completion, students should be able to describe the supporting role of the instructional assistant, demonstrate positive communication skills, and discuss educational philosophy. <i>This course is a unique concentration requirement in the Teacher Associate concentration in the Early Childhood Education program.</i>				

	Class	Lab	Work Exp/ Clinical	Credit
EDU 119 Intro to Early Childhood Education	4	0	0	4
Prerequisites: None Corequisites: None This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for all children. Topics include historical foundations, program types, career options, professionalism and creating inclusive environments and curriculum responsive to the needs of all children and families. Upon completion, students should be able to design career plans and develop schedules, environments and activity plans appropriate for all children.				
EDU 131 Child, Family, & Community	3	0	0	3
Prerequisites: ENG 080, RED 080 Corequisites: None This course covers the development of partnerships between culturally and linguistically diverse families, children, schools and communities. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative relationships between diverse families, programs/schools, and community agencies/resources. Upon completion, students should be able to explain appropriate relationships between families, educators, and professionals that enhance development and educational experiences of all children.				
EDU 144 Child Development I	3	0	0	3
Prerequisites: ENG 080, RED 080 Corequisites: None This course includes the theories of child development, needs, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
EDU 145 Child Development II	3	0	0	3
Prerequisites: EDU 144, ENG 080, RED 080 Corequisites: None This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Work Exp/			
	Class	Lab	Clinical	Credit
EDU 146 Child Guidance	3	0	0	3
Prerequisites: ENG 080, RED 080 Corequisites: None				
This course introduces principles and practical techniques including the design of learning environments for providing developmentally appropriate guidance for all children, including those at risk. Emphasis is placed on observation skills, cultural influences, underlying causes of behavior, appropriate expectations, development of self control and the role of communication and guidance. Upon completion, students should be able to demonstrate direct/indirect strategies for preventing problem behaviors, teaching appropriate/acceptable behaviors, negotiation, setting limits and recognizing at risk behaviors. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
EDU 151 Creative Activities	3	0	0	3
Prerequisites: ENG 080, RED 080 Corequisites: EDU 151A				
This course covers planning, creation and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated, meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and dramatics for all children. Upon completion, students should be able to create, adapt, implement and evaluate developmentally supportive learning materials, experiences and environments.				
EDU 151A Creative Activities Lab	0	2	0	1
Prerequisites: ENG 080, RED 080 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.				
EDU 153 Health, Safety & Nutrition	3	0	0	3
Prerequisites: ENG 080, RED 080 Corequisites: None				
This course covers promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations. Upon completion, students should be able to demonstrate knowledge of health, safety, and nutritional needs, safe learning environments, and adhere to state regulations.				

	Work Exp/			
	Class	Lab	Clinical	Credit
EDU 163 Classroom Mgt & Instruct	3	0	0	3
Prerequisites: ENG 080, RED 080 Corequisites: None				
This course covers management and instructional techniques with school-age populations. Topics include classroom management and organization, teaching strategies, individual student differences and learning styles, and developmentally appropriate classroom guidance techniques. Upon completion, students should be able to utilize developmentally appropriate behavior management and instructional strategies that enhance the teaching/learning process and promote students' academic success.				
EDU 216 Foundations of Education	3	2	0	4
Prerequisites: ENG 090, RED 090 Corequisites: None				
This course introduces the American educational system and the teaching profession. Topics include historical and philosophical foundations of education; contemporary educational, structural, legal, and financial issues, 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.				
EDU 221 Children with Exceptionalities	3	0	0	3
Prerequisites: EDU 144, EDU 145, ENG 090, RED 090 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. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement at select institutions only.				
EDU 234 Infants, Toddlers, & Twos	3	0	0	3
Prerequisites: EDU 119, ENG 080, RED 080 Corequisites: None				
This course covers the unique needs and rapid changes that occur in the first three years of life and the inter-related factors that influence development. Emphasis is placed on recognizing and supporting developmental milestones through purposeful strategies, responsive care routines and identifying elements of quality, inclusive early care and education. Upon completion, students should be able to demonstrate respectful relationships that provide a foundation for healthy infant/toddler/twos development, plan/select activities/materials, and partner with diverse families.				

	Class	Lab	Work Exp/ Clinical	Credit
EDU 235 School-Age Dev & Program	3	0	0	3
Prerequisites: ENG 080, RED 080 Corequisites: None This course includes developmentally appropriate practices in group settings for school-age children. Emphasis is placed on principles of development, environmental planning, and positive guidance techniques. Upon completion, students should be able to discuss developmental principles for all children ages five to twelve and plan and implement developmentally-appropriate activities.				
EDU 243 Learning Theory	3	0	0	3
Prerequisites: ENG 090, RED 090 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 placed on the development of cognitive skills using the eight 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.				
EDU 244 Human Growth/Development	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces lateral entry teachers to theories and ages and stages related to human growth and development from birth through adolescence. Emphasis is placed on development through the stages of a child's life in the areas of physical, emotional, social, intellectual, and moral development. Upon completion, students should be able to identify and describe milestones of each stage in all areas of development and discuss factors that influence growth.				
EDU 245 Policies and Procedures	3	0	0	3
Prerequisites: ENG 090, RED 090 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.				

	Class	Lab	Work Exp/ Clinical	Credit
EDU 250 Praxis I Preparation	1	0	0	1
Prerequisites: ENG 090, RED 090 Corequisites: 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 placed on content specifications of the PRAXIS I exam, study skills and simulated examinations. Upon completion, students should be able to demonstrate an understanding of the content necessary for successful completion of the PRAXIS I exam.				
EDU 251 Exploration Activities	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers discovery experiences in science, math, and social studies. Emphasis is placed on developing concepts for each area and encouraging young children to explore, discover, and construct concepts. Upon completion, students should be able to discuss the discovery approach to teaching, explain major concepts in each area, and plan appropriate experiences for children.				
EDU 259 Curriculum Planning	3	0	0	3
Prerequisites: EDU 119, ENG 090, RED 090 Corequisites: None This course is designed to focus on curriculum planning for three to five year olds. Topics include philosophy, curriculum models, indoor and outdoor environments, scheduling, authentic assessment, and planning developmentally appropriate experiences. Upon completion, students should be able to evaluate children's development, critique curriculum, plan for individual and group needs, and assess and create quality environments.				
EDU 261 Early Childhood Administration I	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: EDU 119 This course introduces principles of basic programming and staffing, budgeting/financial management and marketing, and rules and regulations of diverse early childhood programs. Topics include program structure and philosophy, standards of NC child care programs, finance, funding resources, and staff and organizational management. Upon completion, students should be able to develop components of program/personnel handbooks, a program budget, and demonstrate knowledge of fundamental marketing strategies and NC standards.				

	Class	Work Exp/		Credit
		Lab	Clinical	
EDU 262 Early Childhood Administration II	3	0	0	3
Prerequisites: EDU 261, ENG 090, RED 090 Corequisites: EDU 119				
This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.				
EDU 271 Educational Technology	2	2	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None				
This course introduces the use of technology to enhance teaching and learning in all educational settings. Topics include technology concepts, instructional strategies, materials and adaptive technology for children with exceptionalities, facilitation of assessment/evaluation, and ethical issues surrounding the use of technology. Upon completion, students should be able to apply technology enhanced instructional strategies, use a variety of technology resources and demonstrate appropriate technology skills in educational environments.				
EDU 275 Effective Teacher Training	2	0	0	2
Prerequisites: ENG 090, RED 090 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.				
EDU 280 Language & Literacy Experiences	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None				
This course is designed to expand students' understanding of children's language and literacy development and provides strategies for enhancing language/literacy experiences in an enriched environment. Topics include selection of diverse literature and interactive media, the integration of literacy concepts throughout the curriculum, appropriate observations/assessments and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate and diverse language/literacy experiences.				

	Class	Work Exp/		Credit
		Lab	Clinical	
EDU 281 Instruc Strat/Read & Writ	2	2	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None				
This course covers concepts, resources, and methods for teaching reading and writing to elementary through middle-grade children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches and instructional strategies. Upon completion, students should be able to assess, plan, implement and evaluate school-age literacy experiences as related to the North Carolina Standard Course of Study.				
EDU 282 Early Childhood Literature	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None				
This course covers the history, selection, and integration of literature and language in the early childhood curriculum. Topics include the history and selection of developmentally appropriate children's literature and the use of books and other media to enhance language and literacy in the classroom. Upon completion, students should be able to select appropriate books for storytelling, reading aloud, puppetry, flannel board use, and other techniques.				
EDU 284 Early Child Capstone Prac	1	9	0	4
Prerequisites: EDU 119, 144, 145, 146, 151, ENG 090, RED 090 Corequisites: None				
This course is designed to allow students to apply skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits.				

	Class	Work Exp/		Credit
		Lab	Clinical	
EDU 285 Internship Experiences-School Age	1	9	0	4
Prerequisites: EDU 118, EDU 144, EDU 145, EDU 163, ENG 090, RED 090 Corequisites: None This course is designed to allow students to apply skills in a quality public or private school environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate lesson plans/assessments, appropriate guidance techniques, ethical/professional behaviors as indicated by assignments and onsite faculty visits.				
EDU 289 Adv Issues/School Age	2	0	0	2
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers advanced topics and issues that relate to school-age programs. Emphasis is placed on current advocacy issues, emerging technology, professional growth, ethics, and organizations for providers/teachers working with school-age populations. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues surrounding school-aged populations.				
EGR 285 Design Project	0	4	0	2
Prerequisites: ELC 128, ELN 133, ELN 137 Corequisites: None This course provides the opportunity to design an instructor-approved project using previously acquired skills. Emphasis is placed on selection, proposal, design, testing, and documentation of the approved project. Upon completion, students should be able to present and demonstrate projects.				
ELC 112 DC/AC Electricity	3	6	0	5
Prerequisites: None Corequisites: MAT 050 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, and analyze simple DC/AC circuits.				
ELC 113 Basic Wiring I	2	6	0	4
Prerequisites: ELC 112 Corequisites: None This course introduces the care/usage of tools and materials used in electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical blueprint reading; planning; layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with basic electrical installations.				

	Class	Work Exp/		Credit
		Lab	Clinical	
ELC 114 Basic Wiring II	2	6	0	4
Prerequisites: ELC 113 Corequisites: None This course provides additional instruction in the application of electrical tools, materials, and test equipment associated with electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with electrical installations.				
ELC 117 Motors and Controls	2	6	0	4
Prerequisites: ELC 112 Corequisites: None This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits.				
ELC 118 National Electric Code	1	2	0	2
Prerequisites: None Corequisites: RED 070 This course covers the use of the current National Electrical Code. Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC.				
ELC 119 NEC Calculations	1	2	0	2
Prerequisites: None Corequisites: MAT 050 This course covers branch circuit, feeder, and service calculations. Emphasis is placed on sections of the National Electrical Code related to calculations. Upon completion, students should be able to use appropriate code sections to size wire, conduit, and overcurrent devices for branch circuits, feeders, and service.				
ELC 120 Introduction to Wiring	2	2	0	3
Prerequisites: None Corequisites: None This course is an introduction to wiring concepts for non-electricians. Topics include safety, tools, materials, techniques and terminology associated with electrical wiring. Upon completion, students should be able to use and/or identify wiring tools, materials and procedures at an introductory level.				
ELC 125 Diagrams and Schematics	1	2	0	2
Prerequisites: None Corequisites: None This course covers the interpretation of electrical diagrams, schematics, and drawings common to electrical applications. Emphasis is placed on reading and interpreting electrical diagrams and schematics. Upon completion, students should be able to read and interpret electrical diagrams and schematics.				

	Class	Work Exp/		Credit
		Lab	Clinical	
ELC 128 Introduction to PLC Prerequisites: ELC 112 or ELC 131 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/installation of controllers, and interfacing of controllers with equipment. Upon completion, students should be able to install PLCs and create simple programs.	2	3	0	3
ELC 131 DC/AC Circuit Analysis Prerequisites: None Corequisites: ENG 080, MAT 080, RED 080 This course introduces DC and AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment.	4	3	0	5
ELC 134 Transformer Applications Prerequisites: None Corequisites: None This course covers single- and three-phase transformer applications as found in industrial/commercial buildings and machinery. Topics include transformer principles, single- and three-phase calculations, and connections. Upon completion, students should be able to understand single- and three-phase transformers, make transformer connections, and make calculations.	1	2	0	2
ELN 132 Linear IC Applications Prerequisites: ELN 137 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.	3	3	0	4
ELN 133 Digital Electronics Prerequisites: ELC 112 or ELC 131 Corequisites: None This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, MSI and LSI circuits, AD/DA conversion, and other related topics. Upon completion, students should be able to construct, analyze, verify, and troubleshoot digital circuits using appropriate techniques and test equipment.	3	3	0	4

	Class	Work Exp/		Credit
		Lab	Clinical	
ELN 137 Electr Devices & Circuits Prerequisites: ELC 131 Corequisites: None This course covers diodes, transistors, linear integrated circuits, and IC voltage regulators. Topics include power supplies, switching circuits, amplifiers, oscillators, active filters, and other related topics. Upon completion, students should be able to analyze and troubleshoot circuits using schematic diagrams, appropriate test equipment, and manufacturer's data sheets.	4	3	0	5
ELN 229 Industrial Electronics Prerequisites: ELC 112 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.	3	3	0	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.	3	3	0	4
ELN 237 Local Area Networks Prerequisites: ELN 133 Corequisites: None This course introduces the fundamentals of local area networks and their operation. Topics include the characteristics of network topologies, system hardware, system configuration, installation and operation of the LAN. Upon completion, students should be able to install and maintain a local area network.	2	3	0	3
ENG 080 Writing Foundations Prerequisites: None Corequisites: None This course introduces the writing process and stresses effective sentences. Emphasis is placed on applying the conventions of written English, reflecting standard usage and mechanics in structuring a variety of sentences. Upon completion, students should be able to write correct sentences and a unified, coherent paragraph. <i>This course does not satisfy the developmental reading and writing prerequisite for ENG 111 or ENG 111A.</i>	3	2	0	4

	Class	Lab	Work Exp/ Clinical	Credit
ENG 090 Composition Strategies	3	0	0	3
Prerequisites: ENG 080, RED 070 Corequisites: ENG 090A This course provides practice in the writing process and stresses effective paragraphs. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay. <i>This course satisfies the developmental writing requirement for ENG 111 and ENG 111A.</i>				
ENG 090A Composition Strategies Lab	0	2	0	1
Prerequisites: ENG 080 Corequisites: ENG 090 This writing lab is designed to practice the skills introduced in ENG 090. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay.				
ENG 102 Applied Communications II	3	0	0	3
Prerequisites: ENG 080, RED 070 Corequisites: None This course is designed to enhance writing and speaking skills for the workplace. Emphasis is placed on generating short writings such as job application documents, memoranda, and reports and developing interpersonal communication skills with employees and the public. Upon completion, students should be able to prepare effective, short, and job-related written and oral communications. In order to pass this course, a student must earn at least a "C" average on required oral presentations. <i>This is a diploma-level course.</i>				
ENG 111 Expository Writing	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: OST 080 This course is the required first course in a series of two designed to develop the ability to produce clear expository prose. Emphasis is placed on the writing process including audience analysis, topic selection, thesis support and development, editing, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. In order to pass this course, a student must earn at least a "C" average on required oral presentations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.				

	Class	Lab	Work Exp/ Clinical	Credit
ENG 112 Argument-Based Research	3	0	0	3
Prerequisites: ENG 111 Corequisites: None This course, the second in a series of two, introduces research techniques, documentation styles, and argumentative strategies. Emphasis is placed on analyzing data and incorporating research findings into documented argumentative essays and research projects. Upon completion, students should be able to summarize, paraphrase, interpret, and synthesize information from primary and secondary sources using standard research format and style. In order to pass this course, a student must earn at least a "C" average on required oral presentations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.				
ENG 113 Literature-Based Research	3	0	0	3
Prerequisites: ENG 111 Corequisites: None This course, the second in a series of two, expands the concepts developed in ENG 111 by focusing on writing that involves literature-based research and documentation. Emphasis is placed on critical reading and thinking and the analysis and interpretation of prose, poetry, and drama: plot, characterization, theme, cultural context, etc. Upon completion, students should be able to construct mechanically-sound, documented essays and research papers that analyze and respond to literary works. In order to pass this course, a student must earn at least a "C" average on required oral presentations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.				
ENG 114 Professional Research & Reporting	3	0	0	3
Prerequisites: ENG 111 Corequisites: None This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. In order to pass this course, a student must earn at least a "C" average on required oral presentations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition.				
ENG 125 Creative Writing I	3	0	0	3
Prerequisites: ENG 111 Corequisites: None This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
ENG 131 Introduction to Literature	3	0	0	3
Prerequisites: ENG 111 Corequisites: ENG 112 or ENG 113 or ENG 114 This course introduces the principal genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
ENG 231 American Literature I	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
ENG 232 American Literature II	3	0	0	3
Prerequisites: ENG 112 or ENG 113, or ENG 114 Corequisites: Non This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
ENG 233 Major American Writers	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None This course provides an intensive study of the works of several major American authors. Emphasis is placed on American history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
ENG 241 British Literature I	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				

	Class	Lab	Work Exp/ Clinical	Credit
ENG 242 British Literature II	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
ENG 243 Major British Writers	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None This course provides an intensive study of the works of several major British authors. Emphasis is placed on British history, culture, and the literary merits. Upon completion, students should be able to interpret, analyze, and evaluate the works studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
ENG 261 World Literature I	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. Emphasis is placed on historical background, cultural contexts, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
ENG 262 World Literature II	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				

	Class	Work Exp/		Credit
		Lab	Clinical	
ENG 272 Southern Literature	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None				
This course provides an analytical study of the works of several Southern authors. Emphasis is placed on the historical and cultural contexts, themes, aesthetic features of individual works, and biographical backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and discuss selected works. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
ENG 273 African-American Literature	3	0	0	3
Prerequisites: ENG 112 or ENG 113 or ENG 114 Corequisites: None				
This course provides a survey of the development of African-American literature from its beginnings to the present. Emphasis is placed on historical and cultural context, themes, literary traditions, and backgrounds of the authors. Upon completion, students should be able to interpret, analyze, and respond to selected texts. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
ETR 210 Intro to Entrepreneurship	3	0	0	3
Prerequisites: None Corequisites: None				
This course provides a survey of the starting and operating of an entrepreneurial venture. Topics include new venture creation, the business plan, economics of the business, determining resource needs and acquiring resources, marketing, technology, leadership skills, and business ethics. Upon completion, students should be able to demonstrate an understanding of entrepreneurship concepts and how to use the entrepreneurial mindset to succeed in their careers.				
ETR 215 Law for Entrepreneurs	3	0	0	3
Prerequisites: None Corequisites: None				
This course introduces students to basic legal concepts specifically relevant to a business start-up venture. Topics include bailments and documents of title, nature and form of sales, risk and property rights, obligations and performance, business organizations, and agency and employment. Upon completion, students should be able to assess the legal responsibilities of a business start-up.				
ETR 220 Innovation and Creativity	3	0	0	3
Prerequisites: None Corequisites: None				
This course provides a study of developing and enhancing individual and organizational creativity and innovation. Topics include that innovation needs to be applied to products, services, and processes to increase competitive advantages and add value to businesses. Upon completion, students should be able to apply innovation and creativity principles in the work place.				

	Class	Work Exp/		Credit
		Lab	Clinical	
ETR 230 Entrepreneur Marketing	3	0	0	3
Prerequisites: None Corequisites: None				
This course covers the techniques to correctly research and define the target market to increase sales for start up businesses or to expand current businesses. Topics include how to target market and meet customers' needs with a limited budget in the early stages of the life of a start up business. Upon completion, students should be able to demonstrate an understanding of how to correctly target market for a start-up business with limited resources.				
ETR 240 Funding for Entrepreneurs	3	0	0	3
Prerequisites: ACC 120 Corequisites: None				
This course provides a focus on the financial issues and needs confronting entrepreneurs attempting to grow their businesses by attracting startup and growth capital. Topics include sources of funding including: angel investors, venture capital, IPO's, private placement, banks, suppliers, buyers, partners, and the government. Upon completion, students should be able to demonstrate an understanding of how to effectively finance a business venture.				
FRE 111 Elementary French I	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None				
This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
FRE 112 Elementary French II	3	0	0	3
Prerequisites: FRE 111 Corequisites: None				
This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				

	Class	Work Exp/		Credit
		Lab	Clinical	
GEO 111 World Regional Geography Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3
GEO 112 Cultural Geography Prerequisites: ENG 090, RED 090 Corequisites: None This course is designed to explore the diversity of human cultures and to describe their shared characteristics. Emphasis is placed on the characteristics, distribution, and complexity of earth's cultural patterns. Upon completion, students should be able to demonstrate an understanding of the differences and similarities in human cultural groups. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3
GER 111 Elementary German I Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the fundamental elements of the German language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written German and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.	3	0	0	3
GER 112 Elementary German II Prerequisites: GER 111 Corequisites: None This course is a continuation of GER 111 focusing on the fundamental elements of the German language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written German and demonstrate further cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.	3	0	0	3

	Class	Work Exp/		Credit
		Lab	Clinical	
GRO 120 Gerontology Prerequisites: PSY 150 Corequisites: None This course covers the psychological, social, and physical aspects of aging. Emphasis is placed on the factors that promote mental and physical well-being. Upon completion, students should be able to recognize the aging process and its psychological, social, and physical aspects.	3	0	0	3
HEA 110 Personal Health/Wellness Prerequisites: None Corequisites: None This course provides an introduction to basic personal health and wellness. Emphasis is placed on current health issues such as nutrition, mental health, and fitness. Upon completion, students should be able to demonstrate an understanding of the factors necessary to the maintenance of health and wellness. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.	3	0	0	3
HEA 112 First Aid & CPR Prerequisites: None Corequisites: None This course introduces the basics of emergency first aid treatment. Topics include rescue breathing, CPR, first aid for choking and bleeding, and other first aid procedures. Upon completion, students should be able to demonstrate skills in providing emergency care for the sick and injured until medical help can be obtained. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.	1	2	0	2
HEA 120 Community Health Prerequisites: None Corequisites: None This course provides information about contemporary community health and school hygiene issues. Topics include health education and current information about health trends. Upon completion students should be able to recognize and devise strategies to prevent today's community health problems. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.	3	0	0	3
HIS 111 World Civilizations I Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces world history from the dawn of civilization to the early modern era. Topics include Eurasian, African, American, and Greco-Roman civilizations and Christian, Islamic and Byzantine cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in pre-modern world civilizations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3

	Class	Work Exp/		Credit
		Lab	Clinical	
HIS 112 World Civilizations II	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces world history from the early modern era to the present. Topics include the cultures of Africa, Europe, India, China, Japan, and the Americas. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern world civilizations. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
HIS 121 Western Civilization I	3	0	0	3
Prerequisites: ENG 090, RED 090 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 emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
HIS 122 Western Civilization II	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
HIS 131 American History I	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				

	Class	Work Exp/		Credit
		Lab	Clinical	
HIS 132 American History II	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
HIS 221 African-American History	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers African-American history from the Colonial period to the present. Topics include African origins, the slave trade, the Civil War, Reconstruction, the Jim Crow era, the civil rights movement, and contributions of African Americans. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the history of African Americans. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
HIS 226 The Civil War	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course examines the social, political, economic, and ideological forces that led to the Civil War and Reconstruction. Topics include regional conflicts and sectionalism, dissolution of the Union, military campaigns, and the War's socioeconomic impact, aftermath, and consequences. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in the United States during the era of the Civil War. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
HIS 227 Native American History	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course surveys the history and cultures of Native Americans from pre-history to the present. Topics include Native American civilizations, relations with Europeans, and the continuing evolution of Native American cultures. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments among Native Americans. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Work Exp/		Credit
		Lab	Clinical	
HIS 236 North Carolina History Prerequisites: ENG 090, RED 090 Corequisites: None This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.	3	0	0	3
HMT 110 Intro to Healthcare Management Prerequisites: None Corequisites: None This course introduces the functions, practices, organizational structures, and professional issues in healthcare management. Emphasis is placed on planning, controlling, directing, and communicating within health and human services organizations. Upon completion, students should be able to apply the concepts of management within a healthcare service environment.	3	0	0	3
HMT 210 Medical Insurance Prerequisites: MED 122 Corequisites: None This course introduces the concepts of medical insurance. Topics include types and characteristics of third-party payers, coding concepts, payment systems, and manual/electronic claims form preparation. Upon completion, students should be able to process third-party claims forms.	3	0	0	3
HMT 211 Long-Term Care Administration Prerequisites: HMT 110 Corequisites: None This course introduces the administration of long-term care facilities and services. Emphasis is placed on nursing home care, home health care, hospice, skilled nursing facilities, and other long-term care services. Upon completion, students should be able to administer state and national standards and regulations as they apply to long-term care.	3	0	0	3
HMT 212 Mgt of Healthcare Organizations Prerequisites: HMT 110 Corequisites: None This course examines current issues affecting the management of healthcare delivery systems. Topics include current problems, changes, and challenges in the healthcare environment. Upon completion, students should be able to identify current health care issues and their impact on healthcare management.	3	0	0	3

	Class	Work Exp/		Credit
		Lab	Clinical	
HMT 220 Healthcare Financial Management Prerequisites: ACC 121, HMT 110 Corequisites: None This course covers the methods and techniques utilized in the financial management of healthcare programs. Topics include cost determination, pricing of services, financial statement analysis, forecasting/projections, third-party billing, reimbursement, Medicare, Medicaid, and budgeting. Upon completion, students should be able to interpret and apply the principles of financial management in a healthcare environment.	4	0	0	4
HSE 110 Introduction to Human Services Prerequisites: None Corequisites: ENG 090, RED 090 This course introduces the human services field, including the history, agencies, roles, and careers. Topics include personal/professional characteristics, diverse populations, community resources, disciplines in the field, systems, ethical standards, and major theoretical and treatment approaches. Upon completion, students should be able to identify the knowledge, skills, and roles of the human services worker.	2	2	0	3
HSE 112 Group Process I Prerequisites: Enrollment in the HSE program Corequisites: ENG 090, RED 090 This course introduces interpersonal concepts and group dynamics. Emphasis is placed on self-awareness facilitated by experiential learning in small groups with analysis of personal experiences and the behavior of others. Upon completion, students should be able to show competence in identifying and explaining how people are influenced by their interactions in group settings.	1	2	0	2
HSE 123 Interviewing Techniques Prerequisites: None Corequisites: ENG 090, RED 090 This course covers the purpose, structure, focus, and techniques employed in effective interviewing. Emphasis is placed on observing, attending, listening, responding, recording, and summarizing of personal histories with instructor supervision. Upon completion, students should be able to perform the basic interviewing skills needed to function in the helping relationship.	2	2	0	3
HSE 125 Counseling Prerequisites: PSY 150 Corequisites: None This course covers the major approaches to psychotherapy and counseling, including theory, characteristics, and techniques. Emphasis is placed on facilitation of self-exploration, problem solving, decision making, and personal growth. Upon completion, students should be able to understand various theories of counseling and demonstrate counseling techniques.	2	2	0	3

	Class	Lab	Work Exp/ Clinical	Credit
HSE 155 Community Resources Management	2	0	0	2
Prerequisites: None Corequisites: ENG 090, RED 090 This course focuses on the working relationships between human services agencies and the community. Emphasis is placed on identification and observation of community resources which contribute to the achievement of the human services mission. Upon completion, students should be able to demonstrate knowledge about mobilizing of community resources, marshaling public support, and determining appropriate sources of funding.				
HSE 210 Human Services Issues	2	0	0	2
Prerequisites: Successful completion of 12 SHC in the HSE major courses Corequisites: None This course covers current issues and trends in the field of human services. Emphasis is placed on contemporary topics with relevance to special issues in a multifaceted field. Upon completion, students should be able to integrate the knowledge, skills, and experiences gained in classroom and clinical experiences with emerging trends in the field.				
HSE 220 Case Management	2	2	0	3
Prerequisites: HSE 110 Corequisites: None This course covers the variety of tasks associated with professional case management. Topics include treatment planning, needs assessment, referral procedures, and follow-up and integration of services. Upon completion, students should be able to effectively manage the care of the whole person from initial contact through termination of services.				
HSE 225 Crisis Intervention	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the basic theories and principles of crisis intervention. Emphasis is placed on identifying and demonstrating appropriate and differential techniques for intervening in various crisis situations. Upon completion, students should be able to assess crisis situations and respond appropriately.				
HSE 227 Children & Adolescents in Crisis	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers the crises affecting children and adolescents in contemporary society. Emphasis is placed on abuse and neglect, suicide and murder, dysfunctional family living, poverty, and violence. Upon completion, students should be able to identify and discuss intervention strategies and available services for the major contemporary crises affecting children and adolescents.				

	Class	Lab	Work Exp/ Clinical	Credit
HSE 250 Financial Services	2	0	0	2
Prerequisites: None Corequisites: ENG 090, RED 090 This course introduces those agencies that provide income maintenance casework services. Emphasis is placed on qualifying applicants for a variety of economic assistant programs offered by human services agencies. Upon completion, students should be able to make a factual and objective assessment of a client's economic situation to qualify them for economic assistance.				
HSE 251 Activities Therapy	2	2	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces skills and techniques used in recreation and leisure activities to enhance the lives of special populations. Emphasis is placed on music, art, and recreational therapy. Upon completion, students should be able to define, plan, and adapt recreational activities for selected groups and individuals.				
HUM 110 Technology and Society	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
HUM 115 Critical Thinking	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on evaluating information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course may meet the SACS humanities requirement for AAS degree programs.				
HUM 120 Cultural Studies	3	0	0	3
Prerequisites: None Corequisites: ENG 090, RED 090 This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				

	Class	Work Exp/		Credit
		Lab	Clinical	
HUM 122 Southern Culture Prerequisites: ENG 090, RED 090 Corequisites: None This course explores the major qualities that make the South a distinct region. Topics include music, politics, literature, art, religion, race relations, and the role of social class in historical and contemporary contexts. Upon completion, students should be able to identify the characteristics that distinguish Southern culture. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.	3	0	0	3
HUM 130 Myth in Human Culture Prerequisites: None Corequisites: ENG 111 This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.	3	0	0	3
HUM 150 American Women's Studies Prerequisites: ENG 090, RED 090 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 requirements in humanities/fine arts.	3	0	0	3
HUM 160 Introduction to Film Prerequisites: None Corequisites: ENG 111 This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirements in humanities/fine arts.	2	2	0	3

	Class	Work Exp/		Credit
		Lab	Clinical	
HUM 211 Humanities I Prerequisites: ENG 111 Corequisites: None This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirements in humanities/fine arts.	3	0	0	3
HUM 212 Humanities II Prerequisites: ENG 111 Corequisites: None This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirements in humanities/fine arts.	3	0	0	3
HYD 110 Hydraulics/Pneumatics I Prerequisites: MAT 060 Corequisites: None This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting.	2	3	0	3
HYD 115 Industrial Hydraulics Prerequisites: None Corequisites: None This course introduces basic principles, components, and concepts of industrial hydraulic systems. Topics include standard symbols, actuators, control valves and other hydraulic components. Upon completion, the student should be able to demonstrate an understanding of the principles, concepts, and operation of an industrial hydraulic system.	2	2	0	3
HYD 180 Pneumatics in Automation Prerequisites: None Corequisites: None This course introduces the basic components and functions of pneumatic systems and their application to automated machinery. Topics include standard symbols, compressors, control valves, control circuits, actuators, maintenance procedures, switching and control devices as applied to automated machinery. Upon completion, students should be able to demonstrate an understanding of the operation of compressed air and vacuum systems including design, troubleshooting, and applications.	2	3	0	3

	Class	Lab	Work Exp/ Clinical	Credit
INT 110 International Business Prerequisites: ENG 090, RED 090 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.	3	0	0	3
ISC 112 Industrial Safety Prerequisites: None Corequisites: None This course introduces the principles of industrial safety. Emphasis is placed on industrial safety, OSHA, and environmental regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance.	2	0	0	2
ISC 132 Manufacturing Quality Control Prerequisites: None Corequisites: None This course introduces quality concepts and techniques used in industry. Topics include elementary statistics and probability, process control, process capability, and quality improvement tools. Upon completion, students should be able to demonstrate an understanding of the concepts and principles of quality and apply them to the work environment.	2	3	0	3
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.	2	12	0	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 placed on setup and operation of machine tools including the selection and use of work holding devices, speeds, feeds, cutting tools, and coolants. Upon completion, students should be able to perform basic procedures on precision grinders and advanced operations of measuring, layout, drilling, sawing, turning, and milling.	2	12	0	6

	Class	Lab	Work Exp/ Clinical	Credit
MAC 113 Machining Technology III Prerequisites: MAC 112 Corequisites: None This course provides an introduction to advanced and special machining operations. Emphasis is placed on working to specified tolerances with special and advanced setups. Upon completion, students should be able to produce a part to specifications.	2	12	0	6
MAC 114 Introduction to Metrology Prerequisites: None Corequisites: None This course introduces the care and use of precision measuring instruments. Emphasis is placed on the inspection of machine parts and use of a wide variety of measuring instruments. Upon completion, students should be able to demonstrate the correct use of measuring instruments.	2	0	0	2
MAC 122 CNC Turning Prerequisites: MAC 111 or MEC 111 Corequisites: None This course introduces the programming, setup, and operation of CNC turning centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC turning centers.	1	3	0	2
MAC 124 CNC Milling Prerequisites: MAC 111 or MEC 111 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.	1	3	0	2
MAC 151 Machining Calculations Prerequisites: None Corequisites: None This course introduces basic calculations as they relate to machining occupations. Emphasis is placed on basic calculations and their applications in the machine shop. Upon completion, students should be able to perform basic shop calculations.	1	2	0	2
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.	3	2	0	4

	Class	Work Exp/		Credit
		Lab	Clinical	
MAT 060 Essential Mathematics	3	2	0	4
Prerequisites: MAT 050 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.				
MAT 070 Introductory Algebra	3	2	0	4
Prerequisites: MAT 060 Corequisites: RED 080 This course establishes a foundation in algebraic concepts and problem solving. Topics include signed numbers, exponents, order of operations, simplifying expressions, solving linear equations and inequalities, graphing, formulas, polynomials, factoring, and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.				
MAT 080 Intermediate Algebra	3	2	0	4
Prerequisites: MAT 070 Corequisites: RED 080 This course continues the study of algebraic concepts with emphasis on applications. Topics include factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; systems of equations; inequalities; graphing; functions; variations; complex numbers; and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.				
MAT 140 Survey of Mathematics	3	0	0	3
Prerequisites: MAT 070 Corequisites: None This course provides an introduction in a non-technical setting to selected topics in mathematics. Topics may include, but are not limited to, sets, logic, probability, statistics, matrices, mathematical systems, geometry, topology, mathematics of finance, and modeling. Upon completion, students should be able to understand a variety of mathematical applications, think logically, and be able to work collaboratively and independently. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				

	Class	Work Exp/		Credit
		Lab	Clinical	
MAT 145 Analytical Mathematics	3	0	0	3
Prerequisites: MAT 080 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 premajor and/or elective course requirement.				
MAT 155 Statistical Analysis	3	0	0	3
Prerequisites: MAT 080 Corequisites: None This course is an introduction to descriptive and inferential statistics. Topics include sampling, distributions, plotting data, central tendency, dispersion, Central Limits Theorem, confidence intervals, 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 general education core requirement in natural sciences/mathematics (Quantitative Option).				
MAT 165 Finite Mathematics	3	0	0	3
Prerequisites: MAT 171 Corequisites: None This course provides topics used to formulate models and to solve and interpret solutions using an algorithmic approach. Topics include linear algebra, linear programming, simplex method, sets and counting, probability, mathematics of finance, and logic. Upon completion students should be able to demonstrate both an understanding of the theoretical concepts of finite mathematics and the ability to solve related problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
MAT 167 Discrete Mathematics	3	0	0	3
Prerequisites: MAT 171 Corequisites: None This course is a study of discrete mathematics with emphasis on applications. Topics include number systems, combinations/permutations, mathematical logic/proofs, sets/counting, Boolean algebra, mathematical induction, trees/graphs, and algorithms. Upon completion, students should be able to demonstrate competence in the topics covered. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
MAT 171 Precalculus Algebra	3	0	0	3
Prerequisites: MAT 080 Corequisites: MAT 171A This is the first of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on equations and inequalities, functions (linear, polynomial, rational), systems of equations and inequalities, and parametric equations. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and predictions. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
MAT 171A Precalculus Algebra Lab	0	2	0	1
Prerequisites: MAT 080 Corequisites: MAT 171 This course is a laboratory for MAT 171. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
MAT 172 Precalculus Trigonometry	3	0	0	3
Prerequisites: MAT 171 Corequisites: MAT 172A This is the second of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on properties and applications of transcendental functions and their graphs, right and oblique triangle trigonometry, conic sections, vectors, and polar coordinates. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
MAT 172A Precalculus Trig Lab	0	2	0	1
Prerequisites: MAT 171 Corequisites: MAT 172 This course is a laboratory for MAT 172. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
MAT 271 Calculus I	3	2	0	4
Prerequisites: MAT 172 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 general education core requirement in natural sciences/mathematics.				
MAT 272 Calculus II	3	2	0	4
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 general education core requirement in natural sciences/mathematics.				
MAT 273 Calculus III	3	2	0	4
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 general education core requirement in natural sciences/mathematics.				
MAT 280 Linear Algebra	3	0	0	3
Prerequisites: MAT 271 Corequisites: None This course provides a study of linear algebra topics with emphasis on the development of both abstract concepts and applications. Topics include vectors, systems of equations, matrices, determinants, vector spaces, linear transformations in two or three dimensions, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate both an understanding of the theoretical concepts and appropriate use of linear algebra models to solve application problems. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Work Exp/		Credit
		Lab	Clinical	
MAT 285 Differential Equations	3	0	0	3
Prerequisites: MAT 272 Corequisites: None This course provides an introduction to ordinary differential equations with an emphasis on applications. Topics include first-order, linear higher-order, and systems of differential equations; numerical methods; series solutions; eigenvalues and eigenvectors; Laplace transforms; and Fourier series. Upon completion, students should be able to use differential equations to model physical phenomena, solve the equations, and use the solutions to analyze the phenomena. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
MEC 110 Introduction to CAD/CAM	1	2	0	2
Prerequisites: None Corequisites: ENG 090, MAT 080, RED 090 This course introduces CAD/CAM. Emphasis is placed on transferring part geometry from CAD to CAM for the development of a CNC-ready program. Upon completion, students should be able to use CAD/CAM software to produce a CNC program.				
MEC 111 Machine Processes I	1	4	0	3
Prerequisites: None Corequisites: MAT 050 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.				
MEC 130 Mechanisms	2	2	0	3
Prerequisites: None Corequisites: MAT 050 This course introduces the purpose and action of various mechanical devices. Topics include cams, cables, gear trains, differentials, screws, belts, pulleys, shafts, levers, lubricants, and other devices. Upon completion, students should be able to analyze, maintain, and troubleshoot the components of mechanical systems.				
MEC 141 Intro Manufacturing Processes	2	2	0	3
Prerequisites: MAC 111 or MEC 111 Corequisites: None This course covers the properties and characteristics of manufacturing materials and the processes used to form them. Emphasis is placed on manufacturing materials, heat-treating processes, and manufacturing processes. Upon completion, students should be able to identify physical characteristics of materials and describe processes used to manufacture a part.				

	Class	Work Exp/		Credit
		Lab	Clinical	
MEC 180 Engineering Materials	2	3	0	3
Prerequisites: None Corequisites: None This course introduces the physical and mechanical properties of materials. Topics include materials testing, pre and post-manufacturing processes, and material selection of ferrous and non-ferrous metals, plastics, composites, and non-conventional materials. Upon completion, students should be able to utilize basic material property tests and select appropriate materials for applications.				
MEC 250 Statics & Strength of Materials	4	3	0	5
Prerequisites: MAT 172 Corequisites: None This course covers the concepts and principles of statics and stress analysis. Topics include systems of forces on structures in equilibrium and analysis of stresses and strains on these components. Upon completion, students should be able to analyze forces and the results of stresses and strains on structural components.				
MEC 270 Machine Design	3	3	0	4
Prerequisites: DFT 151, MEC 180, MEC 250 Corequisites: None This course covers the basic principles and underlying design and selection of machine elements. Topics include stress analysis, selection of components, power transmission, and other design considerations. Upon completion, students should be able to identify and solve mechanical design problems by applying basic engineering principles.				
MEC 271 Machine Design Project	0	3	0	1
Prerequisites: DFT 151, MEC 180, MEC 250 Corequisites: MEC 270 This course provides an opportunity for involvement in the practical application of machine design by development of a project. Emphasis is placed on the design and engineering processes required to complete an approved project. Upon completion, students should be able to demonstrate the ability to progress from conceptual design to completed project.				
MED 110 Orientation to Medical Assisting	1	0	0	1
Prerequisites: ENG 090, MAT 070, RED 090, Enrollment in Medical Asst. prog. Corequisites: MED 130 This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting.				

	Class	Lab	Work Exp/ Clinical	Credit
MED 112 Orientation to Clinical Setting I	0	0	3	1
Prerequisites: MED 110, MED 118, MED 121, MED 130 Corequisites: None				
This course provides an early opportunity to observe and/or perform in the medical setting. Emphasis is placed 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.				
MED 114 Prof Interaction in Health Care	1	0	0	1
Prerequisites: MED 140, Enrollment in the Medical Assisting program Corequisites: None				
This course is designed to identify various patient behaviors encountered in the medical setting. Emphasis is placed 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 communications with empathy and impartiality.				
MED 118 Medical Law and Ethics	2	0	0	2
Prerequisites: ENG 090, RED 090 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 placed on legal terms, professional attitudes, and the principles and basic concepts of ethics and laws involved in providing medical services. Upon completion, students should be able to meet the legal and ethical responsibilities of a multi-skilled health professional.				
MED 121 Medical Terminology I	3	0	0	3
Prerequisites: ENG 090, RED 090 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.				
MED 122 Medical Terminology II	3	0	0	3
Prerequisites: MED 121 Corequisites: None				
This course is the second in a series of medical terminology courses. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders.				

	Class	Lab	Work Exp/ Clinical	Credit
MED 130 Administrative Office Procedures I	1	2	0	2
Prerequisites: ENG 090, RED 090, Enrollment in the Medical Assisting program Corequisites: MED 110				
This course introduces medical office administrative procedures. Topics include the 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.				
MED 131 Administrative Office Procedures II	1	2	0	2
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.				
MED 140 Exam Room Procedures I	3	4	0	5
Prerequisites: BIO 163, MED 121, MED 122 Corequisites: None				
This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures.				
MED 150 Laboratory Procedures I	3	4	0	5
Prerequisites: MED 140 Corequisites: None				
This course provides instruction in basic lab techniques used by the medical assistant. Topics include lab safety, quality control, collecting and processing specimens, performing selective tests, phlebotomy, screening and follow-up of test results, and OSHA/CLIA regulations. Upon completion, students should be able to perform basic lab tests/ skills based on course topics.				
MED 232 Medical Insurance Coding	1	3	0	2
Prerequisites: MED 121 Corequisites: None				
This course is designed to develop coding skills. Emphasis is placed on advanced diagnostic and procedural coding in the outpatient facility. Upon completion, students should be able to demonstrate proficiency in coding for reimbursement.				

	Class	Lab	Work Exp/ Clinical	Credit
MED 260 MED Clinical Externship	0	0	15	5
Prerequisites: MED 112, MED 114, MED 150, MED 232, MED 270, MED 272 Corequisites: None				
This course provides the opportunity to apply clinical, laboratory, and administrative skills in a medical facility. Emphasis is placed on enhancing competence in clinical and administrative skills necessary for comprehensive patient care and strengthening professional communications and interactions. Upon completion, students should be able to function as an entry-level health care professional.				
MED 270 Symptomatology	2	2	0	3
Prerequisites: MED 122, MED 131, Enrollment in the Medical Assisting program Corequisites: None				
This course covers the study of disease symptoms and the appropriate actions taken by medical assistants in a medical facility in relation to these symptoms. Emphasis is placed on interviewing skills and appropriate triage, preparing patients for procedures, and screening test results. Upon completion, students should be able to recognize how certain symptoms relate to specific diseases, recognize emergency situations, and take appropriate actions.				
MED 272 Drug Therapy	3	0	0	3
Prerequisites: MAT 155, MED 140, Enrollment in the Medical Assisting program Corequisites: None				
This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office.				
MED 276 Patient Education	1	2	0	2
Prerequisites: MED 112, MED 114, MED 150, MED 232, MED 270, MED 272 Corequisites: None				
This course is designed to provide communication skills, basic education principles, and knowledge of available community resources and to apply this knowledge to the clinical setting. Emphasis is placed on identifying appropriate community resources, developing patient education materials, and perfecting written and oral communication skills. Upon completion, students should be able to instruct, communicate effectively, and act as a liaison between the patient and community agencies.				
MKT 120 Principles of Marketing	3	0	0	3
Prerequisites: ENG 090, RED 090 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.				

	Class	Lab	Work Exp/ Clinical	Credit
MKT 221 Consumer Behavior	3	0	0	3
Prerequisites: RED 090 Corequisites: None				
This course is designed to describe consumer behavior as applied to the exchange processes involved in acquiring, consuming, and disposing of goods and services. Topics include an analysis of basic and environmental determinants of consumer behavior with emphasis on the decision-making process. Upon completion, students should be able to analyze concepts related to the study of the individual consumer.				
MKT 223 Customer Service	3	0	0	3
Prerequisites: RED 090 Corequisites: None				
This course stresses the importance of customer relations in the business world. Emphasis is placed on learning how to respond to complex customer requirements and to efficiently handle stressful situations. Upon completion, students should be able to demonstrate the ability to handle customer relations.				
MKT 224 International Marketing	3	0	0	3
Prerequisites: RED 090 Corequisites: None				
This course covers the basic concepts of international marketing activity and theory. Topics include product promotion, placement, and pricing strategies in the international marketing environment. Upon completion, students should be able to demonstrate a basic understanding of the concepts covered.				
MKT 228 Service Marketing	3	0	0	3
Prerequisites: RED 090 Corequisites: None				
This course is designed to define service marketing, demonstrate its importance, and note its special characteristics. Topics include basic building blocks of service marketing, distinctive aspects of services, and applications of service marketing mix. Upon completion, students should be able to demonstrate a basic understanding of the marketing mix as it applies to the service industry.				
MNT 110 Intro to Maintenance Procedures	1	3	0	2
Prerequisites: None Corequisites: None				
This course covers basic maintenance fundamentals for power transmission equipment. Topics include equipment inspection, lubrication, alignment, and other scheduled maintenance procedures. Upon completion, students should be able to demonstrate knowledge of accepted maintenance procedures and practices according to current industry standards.				

	Class	Lab	Work Exp/ Clinical	Credit
MNT 230 Pumps & Piping Systems	1	3	0	2
Prerequisites: None 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.				
MNT 240 Industrial Equip Troubleshooting	1	3	0	2
Prerequisites: ELC 112 or ELC 131, ELC 128 Corequisites: None This course covers the various service procedures, tools, instruments, and equipment necessary to analyze and repair typical industrial equipment. Emphasis is placed 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.				
MUS 110 Music Appreciation	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic listening and understanding of the art of music. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
NAS 101 Nursing Assistant I	3	4	3	6
Prerequisites: None Corequisites: None This course introduces basic nursing skills required to provide personal care for patients, residents, or clients in a health care setting. Topics include communications, safety, patients' rights, personal care, vital signs, elimination, nutrition, emergencies, rehabilitation, and mental health. Upon completion, students should be able to demonstrate skills necessary to qualify as a Nursing Assistant I with the North Carolina Nurse Aide I Registry. <i>This is a certificate-level course.</i>				
NAS 102 Nursing Assistant II	3	2	6	6
Prerequisites: Must have current CNA certification before clinical Corequisites: None This course provides training in selected advanced nursing assistant procedures. Emphasis is placed on sterile techniques, respiratory procedures, catheterizations, wound and trach care, irrigations, and ostomy care. Upon completion, students should be able to demonstrate skills necessary to qualify as a Nursing Assistant II with the North Carolina Board of Nursing. <i>This is a certificate-level course.</i>				

	Class	Lab	Work Exp/ Clinical	Credit
NAS 103 Home Health Care	2	0	0	2
Prerequisites: High school diploma or GED Corequisites: None This course covers basic health issues that affect clients in the home setting. Emphasis is placed on home safety, recognizing significant changes in the client's condition, family dynamics, and use of home health care equipment. Upon completion, students should be able to identify care for clients at home. <i>This is a certificate-level course.</i>				
NET 125 Networking Basics	1	4	0	3
Prerequisites: ENG 090, MAT 080, RED 090 Corequisites: None This course introduces the networking field. Emphasis is placed on network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols.				
NET 126 Routing Basics	1	4	0	3
Prerequisites: NET 125 Corequisites: None This course focuses on initial router configuration, router software management, routing protocol configuration, TCP/IP, and access control lists (ACLs). Emphasis will be placed on the fundamentals of router configuration, managing router software, routing protocol, and access lists. Upon completion, students should have an understanding of routers and their role in WANs, router configuration, routing protocols, TCP/IP, troubleshooting, and ACLs.				
NET 225 Routing & Switching I	1	4	0	3
Prerequisites: NET 126 Corequisites: None This course focuses on advanced IP addressing techniques, intermediate routing protocols, command-line interface configuration of switches, Ethernet switching, VLANs, STP, and VTP. Emphasis will be placed on application and demonstration of skills acquired in pre-requisite courses. Upon completion, students should be able to perform tasks related to VLSM, routing protocols, switching concepts and configuration, STP, VLANs, and VTP.				
NET 226 Routing & Switching II	1	4	0	3
Prerequisites: NET 225 Corequisites: None This course introduces WAN theory and design, WAN technology, PPP, Frame Relay, ISDN, and additional case studies. Topics include network congestion problems, TCP/IP transport and network layer protocols, advanced routing and switching configuration, ISDN protocols, PPP encapsulation operations on a router. Upon completion, students should be able to provide solutions for network routing problems, identify ISDN protocols, and describe the Spanning Tree protocol.				

	Class	Work Exp/		Credit
		Lab	Clinical	
NET 289 Networking Project	1	4	0	3
Prerequisites: CTS 120, DBA 110, NOS 120, NOS 230, SEC 110 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 placed on project definition, documentation, installation, testing, presentation, and training. Upon completion, students should be able to complete a project from the definition phase through implementation.				
NOS 110 Operating System Concepts	2	3	0	3
Prerequisites: None Corequisites: None				
This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is placed on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.				
NOS 120 Linux/UNIX Single User	2	2	0	3
Prerequisites: NOS 110 Corequisites: None				
This course develops the necessary skills for students to develop both GUI and command line skills for using and customizing a Linux workstation. Topics include Linux file system and access permissions, GNOME Interface, VI editor, X Window System expression pattern matching, I/O redirection, network and printing utilities. Upon completion, students should be able to customize and use Linux systems for command line requirements and desktop productivity roles.				
NOS 130 Windows Single User	2	2	0	3
Prerequisites: NET 125, NOS 110 Corequisites: None				
This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.				
NOS 230 Windows Administration I	2	2	0	3
Prerequisites: NOS 130 Corequisites: None				
This course covers the installation and administration of a Windows Server network operating system. Topics include managing and maintaining physical and logical devices, access to resources, the server environment, managing users, computers, and groups, and Managing/Implementing Disaster Recovery. Upon completion, students should be able to manage and maintain a Windows Server environment.				

	Class	Work Exp/		Credit
		Lab	Clinical	
NOS 231 Windows Administration II	2	2	0	3
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.				
NUR 101 Practical Nursing I	7	6	6	11
Prerequisites: Admission to the Practical Nursing program Corequisites: BIO 163				
This course introduces concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, legal/ethical/professional issues, wellness/illness patterns, and basic nursing skills. Upon completion, students should be able to demonstrate beginning understanding of nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. <i>This is a diploma-level course.</i>				
NUR 102 Practical Nursing II	8	0	12	12
Prerequisites: NUR 101 Corequisites: None				
This course includes more advanced concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, delegation, cost effectiveness, legal/ethical/professional issues, and wellness/illness patterns. Upon completion, students should be able to begin participating in the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. <i>This is a diploma-level course.</i>				
NUR 103 Practical Nursing III	6	0	12	10
Prerequisites: NUR 102 Corequisites: None				
This course focuses on use of nursing/related concepts by practical nurses as providers of care/members of discipline in collaboration with health team members. Emphasis is placed on the nursing process, wellness/illness patterns, entry-level issues, accountability, advocacy, professional development, evolving technology, and changing health care delivery systems. Upon completion, students should be able to use the nursing process to promote/ maintain/restore optimum health for diverse clients throughout the life span. <i>This is a diploma-level course.</i>				

	Class	Lab	Work Exp/ Clinical	Credit
NUR 111 Intro to Health Concepts	4	6	6	8
Prerequisites: Admission to the Associate Degree Nursing program Corequisites: BIO 165, CIS 110, PSY 150 This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.				
NUR 112 Health-Illness Concepts	3	0	6	5
Prerequisites: NUR 111 Corequisites: BIO 166, ENG 111, PSY 241 This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.				
NUR 113 Family Health Concepts	3	0	6	5
Prerequisites: NUR 111, NUR 112, NUR 114 Corequisites: None This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.				
NUR 114 Holistic Health Concepts	3	0	6	5
Prerequisites: NUR 111 Corequisites: BIO 166, ENG 111, PSY 241 This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.				
NUR 211 Health Care Concepts	3	0	6	5
Prerequisites: NUR 111, NUR 112, NUR 113, NUR 114 Corequisites: BIO 275, ENG 112 This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.				

	Class	Lab	Work Exp/ Clinical	Credit
NUR 212 Health Systems Concepts	3	0	6	5
Prerequisites: NUR 111, NUR 112, NUR 113, NUR 114 Corequisites: BIO 275, ENG 112 This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.				
NUR 213 Complex Health Concepts	4	3	15	10
Prerequisites: NUR 111, NUR 112, NUR 113, NUR 114, NUR 211, and NUR 212 Corequisites: SOC 210 This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.				
OST 080 Keyboarding Literacy	1	2	0	2
Prerequisites: None Corequisites: None This course is designed to develop elementary keyboarding skills. Emphasis is placed on mastery of the keyboard. Upon completion, students should be able to demonstrate basic proficiency in keyboarding.				
OST 122 Office Computations	1	2	0	2
Prerequisites: None Corequisites: None This course introduces the keypad and the touch method using the electronic calculator. Topics include mathematical functions in business applications. Upon completion, students should be able to use the electronic calculator to solve a wide variety of problems commonly encountered in business.				
OST 131 Keyboarding	1	2	0	2
Prerequisites: OST 080 Corequisites: None This course covers basic keyboarding skills. Emphasis is placed on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at an acceptable speed and accuracy level using the touch system. This course also includes setting and using tabs, formatting business letters, and formatting interoffice memorandums.				

	Class	Lab	Work Exp/ Clinical	Credit
OST 132 Keyboard Skill Building	1	2	0	2
Prerequisites: OST 131 Corequisites: None This course is designed to increase speed and improve accuracy in keyboarding. Emphasis is placed on diagnostic tests to identify accuracy and speed deficiencies followed by corrective drills. Upon completion, students should be able to keyboard rhythmically with greater accuracy and speed.				
OST 133 Advanced Keyboard Skill Building	1	2	0	2
Prerequisites: OST 132 Corequisites: None This course is designed to increase speed and improve accuracy to meet employment tests and job requirements. Emphasis is placed on individualized diagnostic and prescriptive drills. Upon completion, students should be able to keyboard with greater speed and accuracy as measured by five-minute timed writings and skill-development paragraphs. This course also includes formatting, itineraries, minutes of meetings, reports with enhancements, news releases, and resumes.				
OST 134 Text Entry & Formatting	2	2	0	3
Prerequisites: OST 131 Corequisites: OST 132 This course is designed to provide skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate with employability.				
OST 136 Word Processing	2	2	0	3
Prerequisites: OST 131 Corequisites: None This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment.				
OST 137 Office Software Applications	2	2	0	3
Prerequisites: CIS 110, OST 131 Corequisites: None This course introduces the concepts and functions of software that meets the changing needs of the community. Emphasis is placed on the terminology and use of software through a hands-on approach. Upon completion, students should be able to use software in a business environment.				

	Class	Lab	Work Exp/ Clinical	Credit
OST 164 Text Editing Applications	3	0	0	3
Prerequisites: OST 131 Corequisites: None This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text.				
OST 184 Records Management	2	2	0	3
Prerequisites: ENG 080, RED 090 Corequisites: None This course includes the creation, maintenance, protection, security, and disposition of records stored in a variety of media forms. Topics include alphabetic, geographic, subject, and numeric filing methods. Upon completion, students should be able to set up and maintain a records management system.				
OST 223 Admin Office Transcription I	2	2	0	3
Prerequisites: ENG 111, OST 134, OST 136, OST 164 Corequisites: None This course provides experience in transcribing documents. Emphasis is placed on appropriate formatting, advanced text editing skills, and transcription techniques. Upon completion, students should be able to transcribe office documents.				
OST 233 Office Publications Design	2	2	0	3
Prerequisites: OST 136 Corequisites: None This course provides entry-level skills in using software with desktop publishing capabilities. Topics include principles of page layout, desktop publishing terminology and applications, and legal and ethical considerations of software use. Upon completion, students should be able to design and produce professional business documents and publications.				
OST 236 Adv Word/Information Processing	2	2	0	3
Prerequisites: OST 136 Corequisites: None This course develops proficiency in the utilization of advanced word/information processing functions. Emphasis is placed on advanced word processing features. Upon completion, students should be able to produce a variety of complex business documents.				
OST 286 Professional Development	3	0	0	3
Prerequisites: ENG 111, OST 133 Corequisites: None This course covers the personal competencies and qualities needed to project a professional image in the office. Topics include interpersonal skills, health lifestyles, appearance, attitude, personal and professional growth, multicultural awareness, and professional etiquette. Upon completion, students should be able to demonstrate these attributes in the classroom, office, and society.				

	Class	Lab	Work Exp/ Clinical	Credit
OST 289 Administrative Office Management	2	2	0	3
Prerequisites: ENG 111, OST 134, OST 136, OST 164, OST 236 Corequisites: None This course is designed to be a capstone course for the office professional and provides a working knowledge of modern office procedures. Emphasis is placed on scheduling, telephone procedures, travel arrangements, event planning, office design, and ergonomics. Upon completion, students should be able to adapt in an office environment.				
PED 110 Fit and Well for Life	1	2	0	2
Prerequisites: None Corequisites: None This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors, Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
PED 120 Walking for Fitness	0	3	0	1
Prerequisites: None Corequisites: None This course introduces fitness through walking. Emphasis is placed on stretching, conditioning exercises, proper clothing, fluid needs, and injury prevention. Upon completion, students should be able to participate in a recreational walking program. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
PED 142 Lifetime Sports	0	2	0	1
Prerequisites: None Corequisites: None This course is designed to give an overview of a variety of sports activities. Emphasis is placed on the skills and rules necessary to participate in a variety of lifetime sports. Upon completion, students should be able to demonstrate an awareness of the importance of participating in lifetime sports activities. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
PED 210 Team Sports	0	3	0	1
Prerequisites: None Corequisites: None This course introduces the fundamentals of popular American team sports. Emphasis is placed on rules, equipment, and motor skills used in various sports. Upon completion, students should be able to demonstrate knowledge of the sports covered. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
PHI 210 History of Philosophy	3	0	0	3
Prerequisites: ENG 111 Corequisites: None This course introduces fundamental philosophical issues through an historical perspective. Emphasis is placed on such figures as Plato, Aristotle, Lao-Tzu, Confucius, Augustine, Aquinas, Descartes, Locke, Kant, Wollstonecraft, Nietzsche, and Sartre. Upon completion, students should be able to identify and distinguish among the key positions of the philosophers studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
PHY 110 Conceptual Physics	3	0	0	3
Prerequisites: MAT 070, RED 090 Corequisites: PHY 110A This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				
PHY 110A Conceptual Physics Lab	0	2	0	1
Prerequisites: None 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.				
PHY 151 College Physics I	3	2	0	4
Prerequisites: MAT 171, RED 090 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. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.				

	Class	Work Exp/		
		Lab	Clinical	Credit
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. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.	3	2	0	4
PHY 251 General Physics I Prerequisites: 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. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.	3	3	0	4
PHY 252 General Physics II Prerequisites: MAT 272, PHY 251 Corequisites: None This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.	3	3	0	4
PKG 130 Basic Electronics Prerequisites: None Corequisites: None This course covers the basic electronic components of industrial systems. Topics include safety, PC boards, diodes, power supplies, transducers, transistors, SCRs, Triacs, amplifiers, FETs, ICs, fiber optics, and other related topics. Upon completion, students should be able to demonstrate a working knowledge of basic interfacing and controls associated with industrial machinery electronics.	1	3	0	2

	Class	Work Exp/		
		Lab	Clinical	Credit
PLA 120 Injection Molding Prerequisites: MAT 060, RED 080 Corequisites: None This course provides theory and processing experience with the injection molding process. Topics include machine type, molds, controls, machine polymer part relationship, molding factors, troubleshooting, and molding problems/solutions. Upon completion, students should be able to demonstrate an understanding of machine setup and operation and be able to optimize common injection molding machines.	2	3	0	3
POL 110 Introduction to Political Science Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces basic political concepts used by governments and addresses a wide range of political issues. Topics include political theory, ideologies, legitimacy, and sovereignty in democratic and non-democratic systems. Upon completion, students should be able to discuss a variety of issues inherent in all political systems and draw logical conclusions in evaluating these systems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3
POL 120 American Government Prerequisites: ENG 090, RED 090 Corequisites: None This course is a study of the origins, development, structure, and functions of American national government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy formation. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3
POL 220 International Relations Prerequisites: ENG 090, RED 090 Corequisites: None This course provides a study of the effects of ideologies, trade, armaments, and alliances on relations among nation-states. Emphasis is placed on regional and global cooperation and conflict, economic development, trade, non-governmental organizations, and international institutions such as the World Court and UN. Upon completion, students should be able to identify and discuss major international relationships, institutions, and problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3

	Class	Lab	Work Exp/ Clinical	Credit
PSY 101 Applied Psychology Prerequisites: None Corequisites: None This course introduces the basic principles of psychology as they apply to daily life. Topics include perception, emotions, motivation, adjustment, behavior management, communication, and related topics that promote growth and development on the job and in one's personal life. Upon completion, students should be able to apply the principles learned in this class to everyday living. <i>This course is intended for diploma programs.</i>	3	0	0	3
PSY 150 General Psychology Prerequisites: ENG 090, RED 090 Corequisites: None This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	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. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3
PSY 241 Developmental Psychology Prerequisites: PSY 150 Corequisites: None This course is a study of human growth and development. Emphasis is placed on major theories and perspectives as they relate to the physical, cognitive, and psychosocial aspects of development from conception to death. Upon completion, students should be able to demonstrate knowledge of development across the life span. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3

	Class	Lab	Work Exp/ Clinical	Credit
PSY 281 Abnormal Psychology Prerequisites: PSY 150 Corequisites: None This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavioral patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.	3	0	0	3
RED 070 Essential Reading Skills Prerequisites: None Corequisites: None This course is designed to strengthen reading skills. Emphasis is placed 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. <i>This course does not satisfy the developmental reading prerequisite for ENG 111 or ENG 111A.</i>	3	2	0	4
RED 080 Introduction to College Reading Prerequisites: RED 070 Corequisites: None This course introduces effective reading and inferential thinking skills in preparation for RED 090. Emphasis is placed on vocabulary, comprehension, and reading strategies. Upon completion, students should be able to determine main ideas and supporting details, recognize basic patterns of organization, draw conclusions, and understand vocabulary in context. <i>This course does not satisfy the developmental reading prerequisite for ENG 111 or ENG 111A.</i>	3	2	0	4
RED 090 Improved College Reading Prerequisites: RED 080 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. <i>This course satisfies the developmental reading prerequisite for ENG 111 or ENG 111A.</i>	3	2	0	4
REL 110 World Religions Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.	3	0	0	3

	Class	Lab	Work Exp/ Clinical	Credit
REL 111 Eastern Religions	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the major Asian religious traditions. Topics include Hinduism, Buddhism, Taoism, Confucianism, and Shinto. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
REL 112 Western Religions	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the major western religious traditions. Topics include Zoroastrianism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
REL 211 Introduction to Old Testament	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course is a survey of the literature of the Hebrews with readings from the law, prophets, and other writings. Emphasis is placed on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
REL 212 Introduction to New Testament	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
REL 221 Religion in America	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course is an examination of religious beliefs and practice in the United States. Emphasis is placed on mainstream religious traditions and non-traditional religious movements from the Colonial period to the present. Upon completion, students should be able to recognize and appreciate the diversity of religious traditions in America. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				

	Class	Lab	Work Exp/ Clinical	Credit
SCI 090 Skills for the Sciences	2	2	0	3
Prerequisites: None Corequisites: MAT 070, RED 090 This course is designed to provide fundamental skills necessary for entry into college-level science courses. Topics include scientific vocabulary, measurement, scientific notation, the scientific method for solving problems, collaborative skills, and applications to various areas of science. Upon completion, students should be able to demonstrate a readiness for college-level science courses.				
SEC 110 Security Concepts	3	0	0	3
Prerequisites: NET 125, NOS 110 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.				
SOC 210 Introduction to Sociology	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality, cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
SOC 213 Sociology of the Family	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				

	Work Exp/			
	Class	Lab	Clinical	Credit
SOC 220 Social Problems	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
SOC 225 Social Diversity	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course provides a comparison of diverse roles, interests, opportunities, contributions, and experiences in social life. Topics include race, ethnicity, gender, sexual orientation, class, and religion. Upon completion, students should be able to analyze how cultural and ethnic differences evolve and how they affect personality development, values, and tolerance. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
SOC 240 Social Psychology	3	0	0	3
Prerequisites: PSY 150 or SOC 210 Corequisites: None This course examines the influence of culture and social groups on individual behavior and personality. Emphasis is placed on the process of socialization, communication, conformity, deviance, interpersonal attraction, intimacy, race and ethnicity, small group experiences, and social movements. Upon completion, students should be able to identify and analyze cultural and social forces that influence the individual in a society. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.				
SPA 111 Elementary Spanish I	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: SPA 181 This course introduces the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				

	Work Exp/			
	Class	Lab	Clinical	Credit
SPA 112 Elementary Spanish II	3	0	0	3
Prerequisites: SPA 111 Corequisites: SPA 182 This course is continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
SPA 120 Spanish for the Workplace	3	0	0	3
Prerequisites: None Corequisites: None This course offers applied Spanish for the workplace to facilitate basic communication with people whose native language is Spanish. Emphasis is placed on oral communication and career-specific vocabulary that targets health, business, and/or public service professions. Upon completion students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity.				
SPA 161 Cultural Immersion	2	3	0	3
Prerequisites: SPA 111 Corequisites: None This course explores Hispanic culture through intensive study on campus and 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 premajor and/or elective course requirement.				
SPA 181 Spanish Lab 1	0	2	0	1
Prerequisites: None Corequisites: SPA 111 This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Spanish and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				

	Class	Lab	Work Exp/ Clinical	Credit
SPA 182 Spanish Lab 2	0	2	0	1
Prerequisites: SPA 181 Corequisites: SPA 112 This course provides an opportunity to enhance acquisition of the fundamental elements of the Spanish language. Emphasis is placed on the progressive development of basic listening, speaking, reading, and writing skills through the use of various supplementary learning media and materials. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate cultural awareness. This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.				
SPA 211 Intermediate Spanish I	3	0	0	3
Prerequisites: SPA 112 Corequisites: None This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
SPA 212 Intermediate Spanish II	3	0	0	3
Prerequisites: SPA 211 Corequisites: None This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.				
SWK 113 Working with Diversity	3	0	0	3
Prerequisites: ENG 090, RED 090 Corequisites: None This course examines and promotes understanding, sensitivity, awareness, and knowledge of human diversity. Emphasis is placed on professional responsibilities, duties, and skills critical to multicultural human services practice. Upon completion, students should be able to integrate and expand knowledge, skills, and cultural awareness relevant to diverse populations.				

	Class	Lab	Work Exp/ Clinical	Credit
WEB 110 Internet/Web Fundamentals	2	2	0	3
Prerequisites: None Corequisites: None This course introduces World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded website created with mark-up language, and effectively use and understand the function of search engines.				
WEB 115 Web Markup and Scripting	2	2	0	3
Prerequisites: None Corequisites: None This course introduces Worldwide Web Consortium (W3C) standard client-side Internet programming using industry-established practices. Topics include JavaScript, markup elements, stylesheets, validation, accessibility, standards, and browsers. Upon completion, students should be able to develop hand-coded web pages using current markup standards.				
WEB 120 Introduction Internet Multimedia	2	2	0	3
Prerequisites: None Corequisites: None This is the first of two courses covering the creation of internet multimedia. Topics include internet multimedia file types, file type conversion, acquisition of digital audio/video, streaming audio/video and graphics animation plug-in programs and other related topics. Upon completion, students should be able to create internet multimedia presentations utilizing a variety of methods and applications.				
WEB 140 Web Development Tools	2	2	0	3
Prerequisites: None Corequisites: None This course provides an introduction to web development software suites. Topics include the creation of web sites and applets using web development software. Upon completion, students should be able to create entire web sites and supporting applets.				
WEB 210 Web Design	2	2	0	3
Prerequisites: None Corequisites: WEB 115 or WEB 140 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.				

	Class	Work Exp/		Credit
		Lab	Clinical	
WEB 230 Implementing Web Serv	2	2	0	3
Prerequisites: NET 125, NOS 120, SEC 110, WEB 110 Corequisites: None This course covers website and web server architecture. Topics include installation, configuration, administration, and security of web servers, services and sites. Upon completion, students should be able to effectively manage the web services deployment lifecycle according to industry standards.				
WEB 250 Database Driven Websites	2	2	0	3
Prerequisites: DBA 110, 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.				
WEB 285 Emerging Web Technologies	2	2	0	3
Prerequisites: WEB 115, WEB 140 Corequisites: None This course will explore, discuss, and research emerging technologies in the web arena. Emphasis is placed on exposure to up-and-coming technologies relating to the web, providing hands-on experience, and discussion of practical implications of these emerging fields. Upon completion, students should be able to articulate issues relating to these technologies.				
WLD 110 Cutting Processes	1	3	0	2
Prerequisites: None Corequisites: None This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.				
WLD 112 Basic Welding Processes	1	3	0	2
Prerequisites: None Corequisites: None This course introduces basic welding and cutting. Emphasis is placed on beads applied with gases, mild steel fillers, and electrodes and the capillary action of solder. Upon completion, students should be able to set up welding and oxy-fuel equipment and perform welding, brazing, and soldering processes.				

	Class	Work Exp/		Credit
		Lab	Clinical	
WLD 115 SMAW (Stick) Plate	2	9	0	5
Prerequisites: None Corequisites: None This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.				
WLD 117 Industrial SMAW	1	4	0	3
Prerequisites: WLD 112 Corequisites: None This course introduces the SMAW (stick) process for joining carbon steel components for industrial applications. Topics include padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to safely perform SMAW fillet and groove welds on carbon steel plates with prescribed electrodes.				
WLD 121 GMAW (MIG) FCAW/Plate	2	6	0	4
Prerequisites: None Corequisites: 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.				
WLD 131 GTAW (TIG) Plate	2	6	0	4
Prerequisites: None Corequisites: None This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.				
WLD 132 GTAW (TIG) Plate/Pipe	1	6	0	3
Prerequisites: WLD 131 Corequisites: None This course is designed to enhance skills with the gas tungsten arc (TIG) welding process. Topics include setup, joint preparation, and electrode selection with emphasis on manipulative skills in all welding positions on plate and pipe. Upon completion, students should be able to perform GTAW welds with prescribed electrodes and filler materials on various joint geometry.				

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	Class	Lab	Work Exp/ Clinical	Credit
WLD 141 Symbols & Specifications	2	2	0	3
Prerequisites: None Corequisites: None This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding.				
WLD 151 Fabrication I	2	6	0	4
Prerequisites: None Corequisites: None This course introduces the basic principles of fabrication. Emphasis is placed on safety, measurement, layout techniques, cutting, joining techniques, and the use of fabrication tools and equipment. Upon completion, students should be able to perform layout activities and operate various fabrication and material handling equipment.				
WLD 215 SMAW (Stick) Pipe	1	9	0	4
Prerequisites: WLD 115 Corequisites: None This course covers the knowledge and skills that apply to welding pipe. Topics include pipe positions, joint geometry, and preparation with emphasis placed on bead application, profile, and discontinuities. Upon completion, students should be able to perform SMAW welds to applicable codes on carbon steel pipe with prescribed electrodes in various positions.				
WLD 231 GTAW (TIG) Pipe	1	6	0	3
Prerequisites: WLD 132 Corequisites: None This course covers gas tungsten arc welding on pipe. Topics include joint preparation and fit up with emphasis placed on safety, GTAW welding technique, bead application, and joint geometry. Upon completion, students should be able to perform GTAW welds to applicable codes on pipe with prescribed electrodes and filler materials in various pipe positions.				
WLD 262 Inspection & Testing	2	2	0	3
Prerequisites: None Corequisites: None This course introduces destructive and non-destructive testing methods. Emphasis is placed on safety, types and methods of testing, and the use of testing equipment and materials. Upon completion, students should be able to understand and/or perform a variety of destructive and non-destructive testing processes.				