

ACC 129	Individual Income Taxes	2	2	0	3
Prerequisites: None					
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. SP					
ACC 130	Business Income Taxes	2	2	0	3
Prerequisites: None					
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. FA					
ACC 140	Payroll Accounting	1	2	0	2
Prerequisites: ACC 115 or ACC 120					
Corequisites: None					
This course covers federal and state laws pertaining to wages, payroll taxes, payroll tax forms, and journal and general ledger transactions. Emphasis is placed on computing wages; calculating social security, income, and unemployment taxes; preparing appropriate payroll tax forms; and journalizing/posting transactions. Upon completion, students should be able to analyze data, make appropriate computations, complete forms, and prepare accounting entries using appropriate technology. SP					
ACC 150	Accounting Software Applications	1	2	0	2
Prerequisites: ACC 115 or ACC 120					
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 accurately accounting problems. SP					
ACC 180	Practices in Bookkeeping	3	0	0	3
Prerequisites: ACC 120					
Corequisites: None					
This course provides advanced instruction in bookkeeping and record-keeping functions. Emphasis is placed on mastering adjusting entries, correction of errors, depreciation, payroll, and inventory. Upon completion, students should be able to conduct all key bookkeeping functions for small businesses. FA					
ACC 215	Ethics in Accounting	3	0	0	3
Prerequisites: ACC 121					
Corequisites: None					
This course introduces students to professional codes of conduct and ethics adopted by professional associations and state licensing boards for accountants, auditors, and fraud examiners. Topics include research and discussions of selected historical and contemporary ethical cases and issues as they relate to accounting and business. Upon completion, students should be able to apply codes, interpret facts and circumstances, as they relate to accounting firms and business activities. FA					
ACC 220	Intermediate Accounting I	3	2	0	4
Prerequisites: ACC 120					
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. FA					

ACC 221	Intermediate Accounting II	3	2	0	4
Prerequisites: ACC 220					
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. SP					
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. FA					
AGR 130	Alternative Agriculture Production	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the latest nontraditional enterprises in agriculture. Topics include animal production, aquaculture, and plant production. Upon completion, students should be able to identify selected enterprises and describe basic production practices. SP					
AGR 139	Introduction to Sustainable Agriculture	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course will provide students with a clear perspective on the principles, history, and practices of sustainable agriculture in our local and global communities. Students will be introduced to the economic, environmental and social impacts of agriculture. Upon completion, students should be able to identify the principles of sustainable agriculture as they relate to basic production practices. FA					
AGR 140	Agricultural Chemicals	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course covers all aspects of agricultural chemicals. Topics include safety, environmental effects, federal and state laws, pesticide classification, sprayer calibration, and licensing. Upon completion students should be able to calibrate a sprayer, give proper pesticide recommendations (using integrated pest management), and demonstrate safe handling of pesticides. FA					
AGR 150	Ag-O-Metrics	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces basic calculations for agricultural applications. Topics include the metric system, land measurement, feed efficiency, rate of gain, chemical calibration, and payroll. Upon completion, students should be able to perform calculations that pertain to agricultural production. FA					
AGR 160	Plant Science	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the basic principles of botany that pertain to agricultural production. Emphasis is placed on the anatomy and physiology of flowering plants. Upon completion, students should be able to identify and explain plant systems. SP					

AGR 170	Soil Science	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course covers the basic principles of soil management and fertilization. Topics include liming, fertilization, soil management, biological properties of soil (including beneficial microorganisms), sustainable land care practices and the impact on soils, and plant nutrients. Upon completion, students should be able to analyze, evaluate, and properly amend soils/media according to sustainable practices. FA					
AGR 212	Farm Business Management	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces budgeting, farm analysis, production costs, business organizations, and general management principles. Topics include enterprise budgets, partial budgets, whole farm budgets, income analysis, and business organizations. Upon completion, students should be able to prepare and analyze a farm budget. FA					
AGR 213	Ag Law & Finance	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the basic laws and financial aspects affecting agriculture. Topics include environmental laws, labor laws, contractual business operations, assets, liabilities, net worth, and funding sources. Upon completion, students should be able to complete loan application procedures and explain basic laws affecting the agricultural industry. SP					
AGR 214	Agricultural Marketing	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers basic marketing principles for agricultural products. Topics include buying, selling, processing, standardizing, grading, storing, and marketing of agricultural commodities. Upon completion, students should be able to construct a marketing plan for an agricultural product. SP					
AGR 262	Weed ID & Control	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the annual and perennial weeds of economic importance in the Southeast. Topics include the life cycles, flowering habits, identification, and control of various weeds in the Southeast. Upon completion, students should be able to identify selected weeds and recommend methods of control. SP					
AHR 110	Introduction to Refrigeration	2	6	0	5
Prerequisites: None					
Corequisites: None					
This course introduces the basic refrigeration process used in mechanical refrigeration and air conditioning systems. Topics include terminology, safety, and identification and function of components; refrigeration cycle; and tools and instrumentation used in mechanical refrigeration systems. Upon completion, students should be able to identify refrigeration systems and components, explain the refrigeration process, and use the tools and instrumentation of the trade. FA					
AHR 111	HVACR Electricity	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces electricity as it applies to HVACR equipment. Emphasis is placed on power sources, interaction of electrical components, wiring of simple circuits, and the use of electrical test equipment. Upon completion, students should be able to demonstrate good wiring practices and the ability to read simple wiring diagrams. SP					

AHR 112	Heating Technology	2	4	0	4
Prerequisites: None					
Corequisites: None					
This course covers the fundamentals of heating including oil, gas, and electric heating systems. Topics include safety, tools and instrumentation, system operating characteristics, installation techniques, efficiency testing, electrical power, and control systems. Upon completion, students should be able to explain the basic oil, gas, and electrical heating systems and describe the major components of a heating system. FA					
AHR 113	Comfort Cooling	2	4	0	4
Prerequisites: None					
Corequisites: None					
This course covers the installation procedures, system operations, and maintenance of residential and light commercial comfort cooling systems. Topics include terminology, component operation, and testing and repair of equipment used to control and produce assured comfort levels. Upon completion, students should be able to use psychometrics, manufacturer specifications, and test instruments to determine proper system operation. FA					
AHR 114	Heat Pump Technology	2	4	0	4
Prerequisites: AHR 110 or AHR 113					
Corequisites: None					
This course covers the principles of air source and water source heat pumps. Emphasis is placed on safety, modes of operation, defrost systems, refrigerant charging, and system performance. Upon completion, students should be able to understand and analyze system performance and perform routine service procedures. SP					
AHR 115	Refrigeration Systems	1	3	0	2
Prerequisites: AHR 110					
Corequisites: None					
This course introduces refrigeration systems and applications. Topics include defrost methods, safety and operational control, refrigerant piping, refrigerant recovery and charging, and leak testing. Upon completion, students should be able to assist in installing and testing refrigeration systems and perform simple repairs. FA					
AHR 125	HVACR Electronics	2	2	0	3
Prerequisites: AHR 111, ELC 111, or ELC 112					
Corequisites: None					
This course introduces the common electronic control components in HVACR systems. Emphasis is placed on identifying electronic components and their functions in HVACR systems and motor-driven control circuits. Upon completion, students should be able to identify components, describe control circuitry and functions, and use test instruments to measure electronic circuit values and identify malfunctions. FA					
AHR 133	HVAC Servicing	2	6	0	4
Prerequisites: None					
Corequisites: AHR 112 or AHR 113					
The course covers the maintenance and servicing of HVAC equipment. Topics include testing, adjusting, maintaining, and troubleshooting HVAC equipment and record keeping. Upon completion, students should be able to adjust, maintain, and service HVAC equipment. FA					
AHR 140	All-Weather Systems	1	3	0	2
Prerequisites: AHR 112 or AHR 113					
Corequisites: None					
This course covers the principles of combination heating and cooling systems including gas-electric, all-electric, and oil-electric systems. Topics include PTAC's and package and split-system units. Upon completion, students should be able to understand systems performance and perform routine maintenance procedures. FA					

AHR 180	HVACR Customer Relations	1	0	0	1
Prerequisites: None					
Corequisites: None					
This course introduces common business and customer relation practices that may be encountered in HVACR. Topics include business practices, appearance of self and vehicle, ways of handling customer complaints, invoices, telephone communications, and warranties. Upon completion, students should be able to present themselves to customers in a professional manner, understand how the business operates, complete invoices, and handle complaints. SP					
AHR 211	Residential System Design	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the principles and concepts of conventional residential heating and cooling system design. Topics include heating and cooling load estimating, basic psychometrics, equipment selection, duct system selection, and system design. Upon completion, students should be able to design a basic residential heating and cooling system. SP					
AHR 212	Advanced Comfort Systems	2	6	0	4
Prerequisites: AHR 114					
Corequisites: None					
This course covers water-cooled systems, water-source/geothermal heat pumps, and high efficiency heat pump systems including variable speed drives and controls. Emphasis is placed on the application, installation, and servicing of water-source systems and the mechanical and electronic control components of advanced comfort systems. Upon completion, students should be able to test, analyze, and troubleshoot water-cooled comfort systems, water-source/geothermal heat pumps, and high efficiency heat pumps. SP					
AHR 213	HVACR Building Code	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers the North Carolina codes that are applicable to the design and installation of HVACR systems. Topics include current North Carolina codes as applied to HVACR design, service, and installation. Upon completion, students should be able to demonstrate the correct usage of North Carolina building codes that apply to specific areas of the HVACR trade. SP					
AHR 240	Hydronic Heating	1	3	0	2
Prerequisites: AHR 112					
Corequisites: None					
This course covers the accepted procedures for proper design, installation, and balance of hydronic heating systems for residential or commercial buildings. Topics include heating equipment; pump, terminal unit, and accessory selection; piping system selection and design; and pipe sizing and troubleshooting. Upon completion, students should be able to assist with the proper design, installation, and balance of typical hydronic systems. SP					
AHR 250	HVAC System Diagnostics	0	4	0	2
Prerequisites: None					
Corequisites: AHR 212					
This course is a comprehensive study of air conditioning, heating, and refrigeration system diagnostics and corrective measures. Topics include advanced system analysis, measurement of operating efficiency, and inspection and correction of all major system components. Upon completion, students should be able to restore a residential or commercial AHR system so that it operates at or near manufacturers' specifications. SP					

AHR 255	Indoor Air Quality	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course introduces the techniques of assessing and maintaining the quality of the indoor environment in residential and commercial structures. Topics include handling and investigating complaints, filter selection, humidity control, testing for sources of carbon monoxide, impact of mechanical ventilation, and building and duct pressures. Upon completion, students should be able to assist in investigating and solving common indoor air quality problems. FA					
ANS 110	Animal Science	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the livestock industry. Topics include nutrition, reproduction, production practices, diseases, meat processing, sustainable livestock production, and marketing. Upon completion, students should be able to demonstrate a basic understanding of livestock production practices and the economic impact of livestock locally, regionally, state-wide, and internationally. FA					
ANS 130	Poultry Production	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course provides an introduction to the poultry industry. Topics include anatomy and physiology, reproduction, incubation, environmental issues, and husbandry. Upon completion, students should be able to demonstrate a basic understanding of poultry production and the economic and environmental impact of the poultry industry locally, regionally, state-wide, and internationally. FA					
ANS 150	Animal Health Management	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces animal diseases and health management. Topics include identification, prevention, management (including integrated pest management), and treatment of diseases. Upon completion, students should be able to recognize disease symptoms, recommend treatments, identify preventive steps, and develop biosecurity procedures. SP					
ANS 230	Poultry Management	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course is designed to expand topics covered in ANS 130. Emphasis is placed on management techniques as they relate to brooding, growing, and housing poultry and the environmental needs of various types of poultry. Upon completion, students should be able to analyze and respond to management and production problems as they occur. SP					
ART 111	Art Appreciation	3	0	0	3
Prerequisites: ENG 080 and RED 080, or DRE 098, or appropriate CPT scores					
Corequisites: None					
This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. This course is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP					

ART 114 Art History Survey I 3 0 0 3

Prerequisites: ENG 080 and RED 080, or DRE 098, or appropriate CPT scores

Corequisites: None

This course covers the development of art forms from ancient times to the Renaissance. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.* FA

ART 115 Art History Survey II 3 0 0 3

Prerequisites: ENG 080 and RED 080, or DRE 098, or appropriate CPT scores

Corequisites: None

This course covers the development of art forms from the Renaissance to the present. Emphasis is placed on content, terminology, design, and style. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of human social development. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.* SP

ART 116 Survey of American Art 3 0 0 3

Prerequisites: ENG 080 and RED 080, or DRE 098, or appropriate CPT scores

Corequisites: None

This course covers the development of American art forms from colonial times to the present. Emphasis is placed on architecture, painting, sculpture, graphics, and the decorative arts. Upon completion, students should be able to demonstrate understanding of the history of the American creative experience. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.* SP

ART 117 Non-Western Art History 3 0 0 3

Prerequisites: ENG 080 and RED 080, or DRE 098, or appropriate CPT scores

Corequisites: None

This course introduces non-Western cultural perspectives. Emphasis is placed on, but not limited to, African, Oriental, and Oceanic art forms throughout history. Upon completion, students should be able to demonstrate an historical understanding of art as a product reflective of non-Western social and cultural development. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.* SP

ART 121 Design I 0 6 0 3

Prerequisites: None

Corequisites: None

This course introduces the elements and principles of design as applied to two-dimensional art. Emphasis is placed on the structural elements, the principles of visual organization, and the theories of color mixing and interaction. Upon completion, students should be able to understand and use critical and analytical approaches as they apply to two-dimensional visual art. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.* FA

ART 122	Three-Dimensional Design	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course introduces basic studio problems in three-dimensional visual design. Emphasis is placed on the structural elements and organizational principles as applied to mass and space. Upon completion, students should be able to apply three-dimensional design concepts. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
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. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
ART 135	Figure Drawing I	0	6	0	3
Prerequisites: ART 131					
Corequisites: None					
This course introduces rendering the human figure with various drawing materials. Emphasis is placed on the use of the visual elements, anatomy, and proportion in the representation of the draped and undraped figure. Upon completion, students should be able to demonstrate competence in drawing the human figure. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
ART 171	Computer Art I	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the use of the computer as a tool for solving visual problems. Emphasis is placed on fundamentals of computer literacy and design through bit-mapped image manipulation. Upon completion, students should be able to demonstrate an understanding of paint programs, printers, and scanners to capture, manipulate, and output images. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
ART 214	Portfolio and Resume	0	2	0	1
Prerequisites: Permission of instructor					
Corequisites: None					
This course covers resume writing, interview skills, and the preparation and presentation of an art portfolio. Emphasis is placed on the preparation of a portfolio of original artwork, the preparation of a photographic portfolio, approaches to resume writing, and interview techniques. Upon completion, students should be able to photograph and present a digital portfolio and write an effective resume. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
ART 240	Painting I	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the language of painting and the use of various painting materials. Emphasis is placed on the understanding and use of various painting techniques, media, and color principles. Upon completion, students should be able to demonstrate competence in the use of creative processes directed toward the development of expressive form. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA					

ART 241	Painting II	0	6	0	3
Prerequisites: ART 240					
Corequisites: None					
This course provides a continuing investigation of the materials, processes, and techniques of painting. Emphasis is placed on the exploration of expressive content using a variety of creative processes. Upon completion, students should be able to demonstrate competence in the expanded use of form and variety. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. SP</i>					
ART 264	Digital Photography I	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course introduces digital photographic equipment, theory and processes. Emphasis is placed on camera operation, composition, computer photo manipulation and creative expression. Upon completion, students should be able to successfully expose, digitally manipulate, and print a well-conceived composition. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
ART 265	Digital Photography II	0	6	0	3
Prerequisites: ART 264					
Corequisites: None					
This course provides exploration of the concepts and processes of photo manipulation through complex composite images, special effects, color balancing and image/text integration. Emphasis is placed on creating a personal vision and style. Upon completion, students should be able to produce well-executed images using a variety of photographic and photo manipulative approaches. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
ART 271	Computer Art II	0	6	0	3
Prerequisites: ART 171					
Corequisites: None					
This course includes advanced computer imaging techniques. Emphasis is placed on creative applications of digital technology. Upon completion, students should be able to demonstrate command of computer systems and applications to express their personal vision. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
ART 275	Introduction to Graphic Design	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course introduces students to the field of graphic design. Emphasis is placed on the basic concepts of visual communication, the design process and the ability to evaluate and discuss design issues in a critical manner. Upon completion, students should be able to use contemporary design software and visual language techniques as they apply to creative visual problem-solving involving typography, image manipulation, symbolic representation and page management while being responsive to the relationship between client, designer and audience. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. FA</i>					
ART 276	Interactive Media Technology	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course introduces students to the concepts and techniques used in designing and producing interactive projects. Emphasis is placed on the interactive development process, aesthetics of visual solutions, technical proficiency, and graphical user interface (GUI) with projects including digital imaging, web					

ASL 111 Elementary ASL I 3 0 0 3

Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores

Corequisites: None

This course introduces the fundamental elements of American Sign Language within a cultural context. Emphasis is placed on the development of basic expressive and receptive skills. Upon completion, students will be able to comprehend and respond with grammatical accuracy to expressive American Sign Language and demonstrate cultural awareness. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.* FA

ASL 112 Elementary ASL II 3 0 0 3

Prerequisites: ASL 111

Corequisites: None

This course is a continuation of ASL 111 focusing on the fundamental elements of American Sign Language in a cultural context. Emphasis is placed on the progressive development of expressive and receptive skills. Upon completion, students should be able to comprehend and respond with increasing accuracy to expressive American Sign Language and demonstrate cultural awareness. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.* SP

ASL 211 Intermediate ASL I 3 0 0 3

Prerequisites: ASL 112

Corequisites: None

This course provides a review and expansion of the essential skills of American Sign Language. Emphasis is placed on the progressive development of expressive and receptive skills, study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively using American Sign Language about the past, present, and future. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

ASL 212 Intermediate ASL II 3 0 0 3

Prerequisites: ASL 211

Corequisites: None

This course provides a continuation of ASL 211. Emphasis is placed on the continuing development of expressive and receptive skills, with 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 for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.*

AST 111 Descriptive Astronomy 3 0 0 3

Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores

Corequisites: AST 111A

This course introduces an overall view of modern astronomy. Topics include an overview of the solar system, the sun, stars, galaxies, and the larger universe. Upon completion, students should be able to demonstrate understanding of the universe around them. *This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.* FA, SP

AST 111A	Descriptive Astronomy Lab	0	2	0	1
Prerequisites: None					
Corequisites: AST 111					
This course is a laboratory to accompany AST 111. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 111 and which provide practical experience. Upon completion, students should be able to demonstrate understanding of the universe around them. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP					
AST 151	General Astronomy I	3	0	0	3
Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores					
Corequisites: AST 151A					
This course introduces the science of modern astronomy with a concentration on the solar system. Emphasis is placed on the history and physics of astronomy and an introduction to the solar system, including the planets, comets, and meteors. Upon completion, students should be able to demonstrate a general understanding of the solar system. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP					
AST 151A	General Astronomy I Lab	0	2	0	1
Prerequisites: None					
Corequisites: AST 151					
This course is a laboratory to accompany AST 151. Emphasis is placed on laboratory experiences which enhance the materials presented in AST 151 and which provide practical experience. Upon completion, students should be able to demonstrate a general understanding of the solar system. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i>					
ATR 112	Intro to Automation	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the basic principles of automated systems and describes the tasks that technicians perform on the job. Topics include the history, development, and current applications of robots and automated systems including their configuration, operation, components, and controls. Upon completion, students should be able to understand the basic concepts of automation and robotic systems. FA					
AUB 111	Painting & Refinishing I	2	6	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the proper procedures for using automotive refinishing equipment and materials in surface preparation and application. Topics include federal, state, and local regulations, personal safety, refinishing equipment and materials, surface preparation, masking, application techniques, and other related topics. Upon completion, students should be able to identify and use proper equipment and materials in refinishing following accepted industry standards. FA					
AUB 121	Non-Structural Damage I	1	4	0	3
Prerequisites: None					
Corequisites: None					
This course introduces safety, tools, and the basic fundamentals of body repair. Topics include shop safety, damage analysis, tools and equipment, repair techniques, materials selection, materials usage, and other related topics. Upon completion, students should be able to identify and repair minor direct and indirect damage including removal/repairing/replacing of body panels to accepted standards. FA					

AUB 162	Autobody Estimating	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course provides a comprehensive study of autobody estimating. Topics include collision damage analysis, industry regulations, flat-rate and estimated time, and collision estimating manuals. Upon completion, students should be able to prepare and interpret a damage report. SP					
AUT 114	Safety and Emissions	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers the laws, procedures, and specifications needed to perform a North Carolina State Safety and Emissions Inspection. Topics include brake, steering and suspension, lighting, horn, windshield wiper, tire, mirrors, and emission control devices inspection. Upon completion, students should be able to perform complete and thorough North Carolina State Safety and Emissions inspections. FA					
AUT 116	Engine Repair	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information. SP					
AUT 116A	Engine Repair Lab	0	3	0	1
Prerequisites: None					
Corequisites: AUT 116					
This course covers the theory, construction, inspection, diagnosis, and repair of internal combustion engines and related systems. Topics include fundamental operating principles of engines and diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information. SP					
AUT 141	Suspension & Steering Systems	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course covers principles of operation, types, and diagnosis/repair of suspension and steering systems to include steering geometry. Topics include manual and power steering systems and standard and electronically controlled suspension and steering systems. Upon completion, students should be able to service and repair steering and suspension components, check and adjust alignment angles, repair tires, and balance wheels. FA					
AUT 151	Brake Systems	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course covers principles of operation and types, diagnosis, service, and repair of brake systems. Topics include drum and disc brakes involving hydraulic vacuum boost, hydra-boost, electrically powered boost, and anti-lock and parking brake systems. Upon completion, students should be able to diagnose, service, and repair various automotive braking systems. FA					
AUT 163	Adv Auto Electricity	2	3	0	3
Prerequisites: TRN 120					
Corequisites: None					
This course covers electronic theory, wiring diagrams, test equipment, and diagnosis, repair, and replacement of electronics, lighting, gauges, horn, wiper, accessories, and body modules. Topics include networking and module communication, circuit construction, wiring diagrams, circuit testing, and troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair wiring, lighting, gauges, accessories, modules, and electronic concerns. FA					

AUT 181	Engine Performance I	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course covers the introduction, theory of operation, and basic diagnostic procedures required to restore engine performance to vehicles equipped with complex engine control systems. Topics include an overview of engine operation, ignition components and systems, fuel delivery, injection components and systems and emission control devices. Upon completion, students should be able to describe operation and diagnose/repair basic ignition, fuel and emission related driveability problems using appropriate test equipment/service information. FA					
AUT 183	Engine Performance II	2	6	0	4
Prerequisites: AUT 181					
Corequisites: None					
This course covers study of the electronic engine control systems, the diagnostic process used to locate engine performance concerns, and procedures used to restore normal operation. Topics will include currently used fuels and fuel systems, exhaust gas analysis, emission control components and systems, OBD II (on-board diagnostics) and inter-related electrical/electronic systems. Upon completion, students should be able to diagnose and repair complex engine performance concerns using appropriate test equipment and service information. SP					
AUT 221	Auto Transm/Transaxles	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course covers operation, diagnosis, service, and repair of automatic transmissions/transaxles. Topics include hydraulic, pneumatic, mechanical, and electrical/electronic operation of automatic drive trains and the use of appropriate service tools and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair automatic drive trains. SP					
AUT 231	Man Trans/Axles/Drtrains	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course covers the operation, diagnosis, and repair of manual transmissions/transaxles, clutches, driveshafts, axles, and final drives. Topics include theory of torque, power flow, and manual drive train servicing and repair using appropriate service information, tools, and equipment. Upon completion, students should be able to explain operational theory, diagnose and repair manual drive trains. FA					
AUT 281	Adv Engine Performance	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course utilizes service information and specialized test equipment to diagnose and repair power train control systems. Topics include computerized ignition, fuel and emission systems, related diagnostic tools and equipment, data communication networks, and service information. Upon completion, students should be able to perform diagnosis and repair. SP					
BIO 110	Principles of Biology	3	3	0	4
Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores					
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, 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. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i>					

BIO 111	General Biology I	3	3	0	4
Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores					
Corequisites: None					
This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, molecular and cellular biology, metabolism and energy transformation, genetics, evolution, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i>					
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, evolution, 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. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i>					
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. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science.</i>					
BIO 140	Environmental Biology	3	0	0	3
Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores					
Corequisites: None					
This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. FA, SP</i>					
BIO 163	Basic Anatomy & Physiology	4	2	0	5
Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores					
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. <i>This course also includes an introduction to microbiology. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					

BIO 165	Anatomy and Physiology I	3	3	0	4
Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores					
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 that maintain homeostasis. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. Organ systems of the body are discussed individually and as part of the interacting groups with emphasis on the processes that maintain homeostasis. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
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 that 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. Organ systems of the body are discussed individually and as part of the interacting groups with emphasis on the processes that maintain homeostasis. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
BIO 168	Anatomy and Physiology I	3	3	0	4
Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores					
Corequisites: None					
This course provides a comprehensive study of the anatomy and physiology of the human body. Topics include body organization, homeostasis, cytology, histology, and the integumentary, skeletal, muscular, and nervous systems and special senses. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. FA, SP					
BIO 169	Anatomy and Physiology II	3	3	0	4
Prerequisites: BIO 168					
Corequisites: None					
This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA, SP					
BIO 250	Genetics	3	3	0	4
Prerequisites: BIO 112					
Corequisites: None					
This course covers principles of prokaryotic and eukaryotic cell genetics. Emphasis is placed on the molecular basis of heredity, chromosome structure, patterns of Mendelian and non-Mendelian inheritance, evolution, and biotechnological applications. Upon completion, students should be able to recognize and describe genetic phenomena and demonstrate knowledge of important genetic					

principles. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.* FA

BIO 271 Pathophysiology 3 0 0 3

Prerequisites: BIO 163, BIO 166 or BIO 169

Corequisites: None

This course provides an in-depth study of human pathological processes and their effects on homeostasis. Emphasis is placed on interrelationships among organ systems in deviations from homeostasis. Upon completion, students should be able to demonstrate a detailed knowledge of pathophysiology. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

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 for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.*

BPR 111 Print Reading 1 2 0 2

Prerequisites: None

Corequisites: None

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

BUS 110 Introduction to Business 3 0 0 3

Prerequisites: None

Corequisites: None

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

BUS 115 Business Law I 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces the student to the legal and ethical framework of business. Contracts, negotiable instruments, the law of sales, torts, crimes, constitutional law, the Uniform Commercial Code, and the court systems are examined. Upon completion, the student should be able to identify legal and ethical issues that arise in business decisions and the laws that apply to them. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.* FA

BUS 121 Business Math 2 2 0 3

Prerequisites: None

Corequisites: None

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

BUS 135	Principles of Supervision	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the basic responsibilities and duties of the supervisor and his/her relationship to higher-level supervisors, subordinates, and associates. Emphasis is placed on effective utilization of the work force and understanding the role of the supervisor. Upon completion, students should be able to apply supervisory principles in the work place. SP					
BUS 137	Principles of Management	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing, and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA					
BUS 139	Entrepreneurship I	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course provides an introduction to the principles of entrepreneurship. Topics include self-analysis of entrepreneurship readiness, the role of entrepreneur in economic development, legal problems, organizational structure, sources of financing, budgeting, and cash flow. Upon completion, students should have an understanding of the entrepreneurial process and issues faced by entrepreneurs. FA					
BUS 152	Human Relations	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the concepts of effective human interaction in the business work environment. Topics include effective communication techniques, motivation, ego states, stress, and conflict. Upon completion, students should be able to explain the importance of human relations, apply motivational techniques, and implement strategies for resolving work-related conflicts. SP					
BUS 153	Human Resource Management	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns. SP					
BUS 220	Purchasing	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the purchasing function and explains its role in business. Topics include the legal and ethical aspects of purchasing, quality assurance, and the application of purchasing formulas and methods for cost analysis. Upon completion, students should be able to complete a purchase transaction incorporating legal, ethical, quality, and cost considerations. SP					
BUS 225	Business Finance	2	2	0	3
Prerequisites: ACC-120					
Corequisites: None					
This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management. FA					

BUS 234	Training and Development	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers developing, conducting, and evaluating employee training with attention to adult learning principles. Emphasis is placed on conducting a needs assessment, using various instructional approaches, designing the learning environment, and locating learning resources. Upon completion, students should be able to design, conduct, and evaluate a training program. SP					
BUS 240	Business Ethics	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces contemporary and controversial ethical issues that face the business community. Topics include moral reasoning, moral dilemmas, law and morality, equity, justice and fairness, ethical standards, and moral development. Upon completion, students should be able to demonstrate an understanding of their moral responsibilities and obligations as members of the workforce and society. FA					
BUS 280	REAL Small Business	4	0	0	4
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. SP					
CCT 110	Intro to Cyber Crime	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces and explains the various types of offenses that qualify as cyber crime activity. Emphasis is placed on identifying cyber crime activity and the response to these problems from both the private and public domains. Upon completion, students will be able to accurately describe and define cyber crime activities and select an appropriate response to deal with the problem. FA					
CCT 112	Ethics & High Technology	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers ethical considerations and accepted standard practices applicable to technological investigations and computer privacy issues relative to the cyber crime investigator. Topics include illegal and unethical investigative activities, end-justifying-the-means issues, and privacy issues of massive personal database information gathered by governmental sources. Upon completion, students should be able to examine their own value systems and apply ethical considerations in identifiable cyber crime investigations. SP					
CCT 121	Computer Crime Investigation	3	2	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the fundamental principles of computer crime investigation processes. Topics include crime scene/incident processing, information gathering techniques, data retrieval, collection and preservation of evidence, preparation of reports and court presentations. Upon completion, students should be able to identify cyber crime activity and demonstrate proper investigative techniques to process the scene and assist in case prosecution. SP					
CCT 231	Technology Crimes & Law	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the applicable technological laws dealing with the regulation of cyber security and criminal activity. Topics include an examination of state, federal and international laws regarding cyber crime with an emphasis on both general and North Carolina statutes. Upon completion, students should be able to identify the elements of cyber crime activity and discuss the trends of evolving laws. FA					

CCT 289	Capstone Project	1	6	0	3
Prerequisites: CCT 231 or CCT 220					
Corequisites: None					
This course provides experience in cyber crime investigations or technology security audits in either the public or private domain. Emphasis is placed on student involvement with business or agencies dealing with technology security issues or computer crime activities. Upon completion, students should be able to successfully analyze, retrieve erased evidence and testify in mock proceedings against these criminal entrepreneurs. SP					
CET 150	Computer Forensics I	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course is an introduction to computer forensic concepts, with emphasis on computer forensic methods and best practices. Topics include computer system analysis, physical and logical storage methods for different types of media, tools to recover and analyze data from storage media, system security. Upon completion, students should be able to use diagnostic and investigative techniques to identify and retrieve data from various types of computer media. FA					
CET 250	Computer Forensics II	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course is a study in computer forensic practices with emphasis placed on methods used for prevention, detection, and apprehension of perpetrators of cyber-criminal activity. Topics include the roles of Chief Security Officers in the securing of system breaches, vulnerabilities, network and server security issues, OS and application security risks. Upon completion, students should be able to identify and collect evidence to prove unauthorized and inappropriate access on computer systems and networks. SP					
CHI 111	Elementary Chinese I	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the fundamental elements of the Chinese language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written Chinese and demonstrate cultural awareness. This course is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA</i>					
CHI 112	Elementary Chinese II	3	0	0	3
Prerequisites: CHI 111					
Corequisites: None					
This course includes the basic fundamentals of the Chinese language within a cultural context of the Chinese people and its history. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Chinese and demonstrate further cultural awareness. This course is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. SP</i>					
CHM 131	Introduction to Chemistry	3	0	0	3
Prerequisites: DMA 010, DMA 020, DMA 030, and DMA 040; or appropriate CPT scores					
Corequisites: CHM 131A					
This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students					

should be able to demonstrate a basic understanding of chemistry as it applies to other fields. *This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science.* FA

CHM 131A Introduction to Chemistry Lab 0 3 0 1

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 for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science.* FA

CHM 132 Organic and Biochemistry 3 3 0 4

Prerequisites: CHM 131 and CHM 131A or CHM 151

Corequisites: None

This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields. *This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science.* SP

CHM 151 General Chemistry I 3 3 0 4

Prerequisites: DMA 010, DMA 020, DMA 030, and DMA 040; or appropriate CPT scores

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 for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.* FA,SP

CHM 152 General Chemistry II 3 3 0 4

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 for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.* SP

CHM 251 Organic Chemistry I 3 3 0 4

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, alkylhalides, alcohols, and ethers; further topics include isomerization, stereochemistry, and spectroscopy. Upon completion, students should be able to demonstrate an understanding of the fundamental concepts of covered organic topics as needed in CHM 252. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.* FA

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. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
CIS 110	Introduction to Computers	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. <i>This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative). This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).</i> FA, SP, SU					
CIS 115	Introduction to Programming & Logic	2	3	0	3
Prerequisites: MAT 121 or MAT 171; or DMA 010, DMA 020, DMA 030 and DMA 040; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative). This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative).</i> FA, SP					
CJC 100	Basic Law Enforcement Training	10	30	0	20
Prerequisites: None					
Corequisites: None					
This course covers the basic skills and knowledge needed for entry-level employment as a law enforcement officer in North Carolina. Topics are divided into general units of study: legal, patrol duties, law enforcement communications, investigations, practical application and sheriff-specific. Upon successful completion, the student will be able to demonstrate competence in the topics and areas required for the state comprehensive certification examination. This is a certificate-level course. FA, SP					
CJC 111	Introduction to Criminal Justice	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the components and processes of the criminal justice system. Topics include history, structure, functions, and philosophy of the criminal justice system and their relationship to life in our society. Upon completion, students should be able to define and describe the major system components and their interrelationships and evaluate career options. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA, SP					

CJC 112	Criminology	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces deviant behavior as it relates to criminal activity. Topics include theories of crime causation; statistical analysis of criminal behavior; past, present, and future social control initiatives; and other related topics. Upon completion, students should be able to explain and discuss various theories of crime causation and societal response. FA					
CJC 113	Juvenile Justice	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the juvenile justice system and related juvenile issues. Topics include an overview of the juvenile justice system, treatment and prevention programs, special areas and laws unique to juveniles, and other related topics. Upon completion, students should be able to identify/discuss juvenile court structure/procedures, function and jurisdiction of juvenile agencies, processing/detention of juveniles, and case disposition. FA					
CJC 121	Law Enforcement Operations	3	0	0	3
Prerequisites: None					
Corequisites: None					
The course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
CJC 131	Criminal Law	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the history/evolution/principles and contemporary applications of criminal law. Topics include sources of substantive law, classification of crimes, parties to crime, elements of crimes, matters of criminal responsibility, and other related topics. Upon completion, students should be able to discuss the sources of law and identify, interpret, and apply the appropriate statutes/elements. FA					
CJC 132	Court Procedure & Evidence	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers judicial structure/process/procedure from incident to disposition, kinds and degrees of evidence, and the rules governing admissibility of evidence in court. Topics include consideration of state and federal courts, arrest, search and seizure laws, exclusionary and statutory rules of evidence, and other related issues. Upon completion, students should be able to identify and discuss procedures necessary to establish a lawful arrest/search, proper judicial procedures, and the admissibility of evidence. FA					
CJC 141	Corrections	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the history, major philosophies, components, and current practices and problems of the field of corrections. Topics include historical evolution, functions of the various components, alternatives to incarceration, treatment programs, inmate control, and other related topics. Upon completion, students should be able to explain the various components, processes, and functions of the correctional system. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA					

CJC 151	Introduction to Loss Prevention	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the concepts and methods related to commercial and private security systems. Topics include the historical, philosophical, and legal basis of security, with emphasis on security surveys, risk analysis, and associated functions. Upon completion, students should be able to demonstrate and understand security systems, risk management, and the laws relative to loss prevention. FA					
CJC 212	Ethics & Community Relations	3	0	0	3
Prerequisites: DRE 098 or appropriate CPT scores					
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. SP					
CJC 213	Substance Abuse	3	0	0	3
Prerequisites: DRE 098 or appropriate CPT scores					
Corequisites: None					
This course is a study of substance abuse in our society. Topics include the history and classifications of drug abuse and the social, physical, and psychological impact of drug abuse. Upon completion, students should be able to identify various types of drugs, their effects on human behavior and society, and treatment modalities. SP					
CJC 214	Victimology	3	0	0	3
Prerequisites: DRE 098 or appropriate CPT scores					
Corequisites: None					
This course introduces the study of victims. Emphasis is placed on roles/characteristics of victims, victim interaction with the criminal justice system and society, current victim assistance programs, and other related topics. Upon completion, students should be able to discuss and identify victims, the uniqueness of victims' roles, and current victim assistance programs. SP					
CJC 215	Organization & Administration	3	0	0	3
Prerequisites: DRE 098 or appropriate CPT scores					
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. SP					
CJC 221	Investigative Principles	3	2	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the theories and fundamentals of the investigative process. Topics include crime scene/incident processing, information gathering techniques, collection/preservation of evidence, preparation of appropriate reports, court presentations, and other related topics. Upon completion, students should be able to identify, explain, and demonstrate the techniques of the investigative process, report preparation, and courtroom presentation. FA					
CJC 222	Criminalistics	3	0	0	3
Prerequisites: DRE 098 or appropriate CPT scores					
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. SP					

CJC 223	Organized Crime	3	0	0	3
Prerequisites: DRE 098 or appropriate CPT scores					
Corequisites: None					
This course introduces the evolution of traditional and non-traditional organized crime and its effect on society and the criminal justice system. Topics include identifying individuals and groups involved in organized crime, areas of criminal activity, legal and political responses to organized crime, and other related topics. Upon completion, students should be able to identify the groups and activities involved in organized crime and the responses of the criminal justice system. SP					
CJC 231	Constitutional Law	3	0	0	3
Prerequisites: DRE 098 or appropriate CPT scores					
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. SP					
CJC 232	Civil Liability	3	0	0	3
Prerequisites: DRE 098 or appropriate CPT scores					
Corequisites: None					
This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues. SP					
COM 110	Introduction to Communication	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Communication. This course has been approved for transfer under the ICAA as a general education course in Communication.</i>					
COM 120	Introduction to Interpersonal Communication	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Communication. This course has been approved for transfer under the ICAA as a general education course in Communication.</i> FA, SP					
COM 140	Introduction to Intercultural Communication	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces techniques of cultural research, definitions, functions, characteristics, and impacts of cultural differences in public address. Emphasis is placed on how diverse backgrounds influence the communication act and how cultural perceptions and experiences determine how one sends and receives messages. Upon completion, students should be able to demonstrate an understanding of the					

principles and skills needed to become effective in communicating outside one's primary culture. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Communication. This course has been approved for transfer under the ICAA as a general education course in Communication.*

COM 231 Public Speaking 3 0 0 3

Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores

Corequisites: None

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. *This course has been approved for transfer under the CAA as a general education course in Communication. This course has been approved for transfer under the ICAA as a general education course in Communication. This is a Universal General Education Transfer Component (UGETC) course.*

CSC 151 JAVA Programming 2 3 0 3

Prerequisites: None

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 for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. SP*

CTI 110 Web, Pgm, and Db Foundation 2 2 0 3

Prerequisites: None

Corequisites: None

This course covers the introduction of the tools and resources available to students in programming, mark-up language and services on the Internet. Topics include standard mark-up language Internet services, creating web pages, using search engines, file transfer programs; and database design and creation with DBMS products. Upon completion students should be able to demonstrate knowledge of programming tools, deploy a web-site with mark-up tools, and create a simple database table. FA

CTI 120 Network and Security Foundation 2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces students to the Network concepts, including networking terminology and protocols, local and wide area networks, and network standards. Emphasis is placed on securing information systems and the various implementation policies. Upon completion, students should be able to perform basic tasks related to networking mathematics, terminology, media and protocols. FA

CTS 115 Info Sys Business Concepts 3 0 0 3

Prerequisites: None

Corequisites: None

The course introduces the role of IT in managing business processes and the need for business process and IT alignment. Emphasis is placed on industry need for understanding business challenges and developing/managing information systems to contribute to the decision making process based on these challenges. Upon completion, students should be able to demonstrate knowledge of the 'hybrid business manager' and the potential offered by new technology and systems. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. FA*

CTS 120	Hardware/Software Support	2	3	0	3
Prerequisites: None					
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. SP					
CTS 125	Presentation Graphics	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course provides hands-on experience with a graphics presentation package. Topics include terminology, effective chart usage, design and layout, integrating hardware components, and enhancing presentations with text, graphics, audio and video. Upon completion, students should be able to design and demonstrate an effective presentation. SP					
CTS 130	Spreadsheet	2	2	0	3
Prerequisites: None					
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. FA, SP					
CTS 155	Tech Support Functions	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces a variety of diagnostic and instructional tools that are used to evaluate the performance of technical support technologies. Emphasis is placed on technical support management techniques and support technologies. Upon completion, students should be able to determine the best technologies to support and solve actual technical support problems. SP					
CTS 285	Systems Analysis & Design	3	0	0	3
Prerequisites: None					
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. FA					
CTS 288	Professional Practices in IT	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course provides students with the business skills needed for success in the information technology field. Topics include portfolio development, resume design, interviewing techniques and professional practices. Upon completion, students should be able to prepare themselves and their work for a career in the information technology field. SP					
CTS 289	System Support Project	1	4	0	3
Prerequisites: CTI 110, CTI 120, and CTS 115					
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. SP					

CUL 110	Sanitation and Safety	2	0	0	2
Prerequisites: None					
Corequisites: None					
This course introduces the basic principles of sanitation and safety relative to the hospitality industry. Topics include personal hygiene, sanitation and safety regulations, use and care of equipment, the principles of food-borne illness, and other related topics. Upon completion, students should be able to demonstrate an understanding of the content necessary for successful completion of a nationally recognized food/safety/sanitation exam. FA, SP					
CUL 112	Nutrition for Foodservice	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the principles of nutrition and its relationship to the foodservice industry. Topics include personal nutrition fundamentals, weight management exercise, nutritional adaptation analysis of recipes/menus, health cooking techniques and marketing nutrition in a foodservice operation. Upon completion, students should be able to apply basic nutritional concepts to food preparation and selection. SP					
CUL 135	Food & Beverage Service	2	0	0	2
Prerequisites: None					
Corequisites: None					
This course is designed to cover the practical skills and knowledge necessary to effective food and beverage service in a variety of settings. Topics include greeting/service of guests, dining room set-up, profitability, menu sales and merchandising, service styles and reservations. Upon completion, students should be able to demonstrate competence in human relations and the skills required in the service of foods and beverages. FA					
CUL 140	Culinary Skills I	2	6	0	5
Prerequisites: None					
Corequisites: CUL 110					
This course introduces the fundamental concepts, skills, and techniques involved in basic cookery. Emphasis is placed on recipe conversion, measurements, terminology, knife skills, safe food handling, cooking methods, flavorings, seasonings, stocks/sauces/soups, and other related topics. Upon completion, students should be able to exhibit the basic cooking skills used in the food service industry. FA					
CUL 160	Baking I	1	4	0	3
Prerequisites: None					
Corequisites: CUL 110					
This course covers basic ingredients, techniques, weights and measures, baking terminology and formula calculations. Topics include yeast/chemically leavened products, laminated doughs, pastry dough batter, pies/tarts, meringue, custard, cakes and cookies, icings, glazes and basic sauces. Upon completion, students should be able to demonstrate proper scaling and measurement techniques, and prepare and evaluate a variety of bakery products. FA					
CUL 170	Garde Manger I	1	4	0	3
Prerequisites: None					
Corequisites: CUL 110					
This course introduces basic cold food preparation techniques and pantry production. Topics include salads, sandwiches, appetizers, dressings, basic garnishes, cheeses, cold sauces, and related food items. Upon completion, students should be able to present a cold food display and exhibit an understanding of the cold kitchen and its related terminology. FA					

CUL 240	Culinary Skills II	1	8	0	5
Prerequisites: CUL 110 and CUL 140 or CUL 110, CUL 142, and CUL 170					
Corequisites: None					
This course is designed to further student knowledge of the fundamental concepts, skills, and techniques involved in basic cookery. Emphasis is placed on meat identification/fabrication, butchery and cooking techniques/methods; appropriate vegetable/starch accompaniments; compound sauces; plate presentation; breakfast cookery; and quantity food preparation. Upon completion, students should be able to plan, execute, and successfully serve entrees with complementary side items. SP					
CUL 245	Contemporary Cuisines	1	8	0	5
Prerequisites: CUL 110 and CUL 140					
Corequisites: None					
This course introduces students to current culinary trends which include a variety of preparation methods. Topics include current and developing trends such as adaptation of native/regional ingredients and preparation methods into contemporary cuisines. Upon completion, students should be able to demonstrate knowledge of a variety of contemporary cuisines. SP					
CUL 260	Baking II	1	4	0	3
Prerequisites: CUL 110 and CUL 160					
Corequisites: None					
This course is a continuation of CUL 160. Topics include specialty breads, pastillage, marzipan, chocolate, pulled-sugar, confections, classic desserts, pastries, and cake decorating. Upon completion, students should be able to demonstrate pastry preparation and plating, cake decorating, and show-piece production skills. FA					
CUL 270	Garde Manger II	1	4	0	3
Prerequisites: CUL 110, CUL 140, and CUL 170					
Corequisites: None					
This course is designed to further students knowledge in basic cold food preparation techniques and pantry production. Topics include pates, terrines, galantines, decorative garnishing skills, carving, charcuterie, smoking, canapes, hors d'oeuvres, and related food items. Upon completion, students should be able to design, set up, and evaluate a catering/event display to include a cold buffet with appropriate showpieces. SP					
CVS 160	CVS Clinical Ed I	0	4	9	5
Prerequisites: Enrollment in Cardiovascular Sonography Program					
Corequisites: None					
This course provides active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.					
CVS 163	Echo I	3	2	0	4
Prerequisites: Enrollment in Cardiovascular Sonography Program					
Corequisites: None					
This course covers cardiac anatomy and introduces cardiac scanning techniques. Topics include normal cardiac anatomy, Doppler physics, and 2-D and M-mode imaging. Upon completion, students should be able to perform 2-D and M-mode studies.					
CVS 164	Echo II	3	2	0	4
Prerequisites: CVS 163, Enrollment in Cardiovascular Sonography Program					
Corequisites: None					
This course is a continuation of CVS 163 with continued study of 2-D and M-mode imaging. Emphasis is placed on continuous wave, pulsed wave, color, and power Doppler imaging of normal and abnormal cardiac conditions. Upon completion, students should be able to perform and recognize normal and abnormal cardiac studies.					

CVS 165	Intro to Cardiovascular Sonography	1	3	0	2
Prerequisites: Enrollment in Cardiovascular Sonography Program					
Corequisites: None					
This course provides an introduction to the field of cardiovascular sonography. Topics include applications, sonographic terminology, basic anatomy of the heart and vascular system, and basic scanning skills. Upon completion, students should be able to recognize anatomy of the heart and vascular system and be able to perform preliminary scanning techniques.					
CVS 260	CVS Clinical Ed IV	0	0	24	8
Prerequisites: CVS 162, Enrollment in Cardiovascular Sonography Program					
Corequisites: None					
This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations.					
CVS 277	Cardiovascular Topics	2	0	0	2
Prerequisites: Enrollment in Cardiovascular Sonography Program					
Corequisites: None					
This course provides an overview of cardiovascular topics in preparation to certification examinations. Emphasis is placed on registry preparation. Upon completion, students should be able to sit for the registry examinations.					
DBA 110	Database Concepts	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces database design and creation using a DBMS product. Emphasis is placed on data dictionaries, normalization, data integrity, data modeling, and creation of simple tables, queries, reports, and forms. Upon completion, students should be able to design and implement normalized database structures by creating simple database tables, queries, reports, and forms. FA					
DBA 120	Database Programming I	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course is designed to develop SQL programming proficiency. Emphasis is placed on data definition, data manipulation, and data control statements as well as on report generation. Upon completion, students should be able to write programs which create, update, and produce reports. SP					
DFT 151	CAD I	2	3	0	3
Prerequisites: None					
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. FA					
DFT 152	CAD II	2	3	0	3
Prerequisites: None					
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. SP					
DFT 154	Intro Solid Modeling	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course is an introduction to basic three-dimensional solid modeling and design software. Topics include basic design, creation, editing, rendering and analysis of solid models, and creation of multiview drawings. Upon completion, students should be able to use design techniques to create, edit, render and generate a multiview drawing. FA					

DMA 010	Operations With Integers	.75	.50	0	1
Prerequisites: None					
Corequisites: None					
This course provides a conceptual study of integers and integer operations. Topics include integers, absolute value, exponents, square roots, perimeter and area of basic geometric figures, Pythagorean theorem, and use of the correct order of operations. Upon completion students should be able to demonstrate an understanding of pertinent concepts and principles and apply this knowledge in the evaluation of expressions.					
DMA 020	Fractions and Decimals	.75	.50	0	1
Prerequisites: DMA 010					
Corequisites: None					
This course provides a conceptual study of the relationship between fractions and decimals and covers related problems. Topics include application of operations and solving contextual application problems, including determining the circumference and area of circles with the concept of pi. Upon completion, students should be able to demonstrate an understanding of the connections between fractions and decimals.					
DMA 030	Proportion/Ratio/Rate/Percent	.75	.50	0	1
Prerequisites: DMA 010 and DMA 020					
Corequisites: None					
This course provides a conceptual study of problems that are represented by rates, ratios, percent, and proportions. Topics include rates, ratios, percent, proportion, conversion of English and metric units, and applications of the geometry of similar triangles. Upon completion, students should be able to use their understanding to solve conceptual application problems.					
DMA 040	Expressions/Linear Equations/Inequalities	.75	.50	0	1
Prerequisites: DMA 010, DMA 020, and DMA 030					
Corequisites: None					
This course provides a conceptual study of problems involving linear expressions, equations, and inequalities. Emphasis is placed on solving contextual application problems. Upon completion, students should be able to distinguish between simplifying expressions and solving equations and apply this knowledge to problems involving linear expressions, equations, and inequalities.					
DMA 050	Graphs/Equations of Lines	.75	.50	0	1
Prerequisites: DMA 010, DMA 020, DMA 030, and DMA 040					
Corequisites: None					
This course provides a conceptual study of problems involving graphic and algebraic representations of lines. Topics include slope, equations of lines, interpretation of basic graphs, and linear modeling. Upon completion, students should be able to solve contextual application problems and represent real-world situations as linear equations in two variables.					
DMA 060	Polynomial/Quadratic Applications	.75	.50	0	1
Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, and DMA 050;					
Corequisites: None					
This course provides a study of problems involving algebraic representations of quadratic equations. Topics include basic polynomial operations, factoring polynomials, and solving polynomial equations by means of factoring. Upon completion students should be able to find algebraic solutions to contextual problems with quadratic applications.					
DMA 070	Rational Express/Equation	.75	.50	0	1
Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060					
Corequisites: None					
This course provides a study of problems involving algebraic representations of rational equations. Topics include simplifying and performing operations with rational expressions and equations, understanding the domain, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with rational applications.					

DMA 080	Radical Express/Equations	.75	.50	0	1
Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070					
Corequisites: None					
This course provides a conceptual study of the manipulation of radicals and the application of radical equations to real-world problems. Topics include simplifying and performing operations with radical expressions and rational exponents, solving equations, and determining the reasonableness of an answer. Upon completion, students should be able to find algebraic solutions to contextual problems with radical applications.					
DMS 001	Developmental Math Shell I	.75	.50	0	1
Prerequisites: None					
Corequisites: None					
This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be one DMA module appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content.					
DMS 002	Developmental Math Shell 2	1.5	1	0	2
Prerequisites: None					
Corequisites: None					
This course provides an opportunity to customize developmental math content in specific developmental math areas. Content will be two DMA modules appropriate to the required level of the student. Upon completion, students should be able to demonstrate an understanding of their specific developmental math area of content.					
DRA 111	Theatre Appreciation	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA</i>					
DRA 115	Theatre Criticism	3	0	0	3
Prerequisites: DRA 111					
Corequisites: None					
This course is designed to develop a critical appreciation of the theatre from the viewpoint of the audience/consumer. Emphasis is placed on viewing, discussing, and evaluating selected theatre performance, either live or on film/video. Upon completion, students should be able to express their critical judgments both orally and in writing. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA</i>					
DRA 126	Storytelling	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the art of storytelling and the oral traditions of folk literature. Topics include the history of storytelling, its value and purpose, techniques of the storyteller, and methods of collecting verbal art. Upon completion, students should be able to present and discuss critically stories from the world's repertory of traditional lore. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA</i>					

DRE 096	Integrated Reading and Writing	2.5	1	0	3
Prerequisites: None					
Corequisites: None					
This course is designed to develop proficiency in specific integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are primarily taught at the introductory level using texts primarily in a Lexile® range of 960 to 1115. Upon completion, students should be able to apply those skills toward understanding a variety of academic and career-related texts and composing effective paragraphs.					
DRE 097	Integrated Reading and Writing II	2.5	1	0	3
Prerequisites: DRE 096					
Corequisites: None					
This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught at a reinforcement level using texts primarily in a Lexile® range of 1070 to 1220. Upon completion, students should be able to demonstrate and apply those skills toward understanding a variety of complex academic and career texts and composing essays incorporating relevant, valid evidence.					
DRE 098	Integrated Reading and Writing III	2.5	1	0	3
Prerequisites: DRE 097					
Corequisites: None					
This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; these topics are taught using texts primarily in a Lexile® range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay.					
DRE 099	Integrated Reading and Writing III	2	0	0	2
Prerequisites: DRE 097					
Corequisites: ENG 111					
This course is designed to develop proficiency in integrated and contextualized reading and writing skills and strategies by complementing, supporting and reinforcing material covered in ENG 111. Topics include reading and writing processes, critical thinking strategies, and recognition and composition of well-developed, coherent, and unified texts; except where noted, these topics are taught using texts primarily in the Lexile® range of 1185 to 1385. Upon completion, students should be able to apply those skills toward understanding a variety of texts at the career and college ready level and toward composing a documented essay. FA, SP					
ECM 210	Introduction to Electronic Commerce	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the concepts and tools to implement electronic commerce via the Internet. Topics include application and server software selection, securing transactions, use and verification of credit cards, publishing of catalogs, and site administration. Upon completion, students should be able to set up a working Electronic Commerce Internet web site. SP					
ECO 251	Principles of Microeconomics	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces economic analysis of individual, business, and industry in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order					

to efficiently achieve economic objectives. *This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course.* FA, SP

ECO 252 Principles of Macroeconomics 3 0 0 3

Prerequisites: None

Corequisites: None

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. *This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course.* FA, SP

EDU 119 Introduction to Early Childhood Education 4 0 0 4

Prerequisites: None

Corequisites: None

This course covers the foundations of early childhood education, the diverse educational settings for young children, professionalism and planning intentional developmentally appropriate experiences for each child. Topics include theoretical foundations, national early learning standards, NC Foundations for Early Learning and Development, state regulations, program types, career options, professionalism, ethical conduct, quality inclusive environments, and curriculum responsive to the needs of each child/family. Upon completion, students should be able to design a career/professional development plan, and appropriate environments, schedules, and activity plans. FA

EDU 131 Child, Family, & Community 3 0 0 3

Prerequisites: None

Corequisites: DRE 097

This course covers the development of partnerships between culturally, linguistically and ability diverse families, children, schools and communities through the use of evidence-based strategies. 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 reflective of the NAEYC Code of Ethical Conduct. Upon completion, students should be able to identify appropriate relationship building strategies between diverse families, children, schools, and communities and demonstrate a variety of communication skills including appropriate use of technology to support every child. SP

EDU 144 Child Development I 3 0 0 3

Prerequisites: None

Corequisites: DRE 097

This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.* FA

EDU 145	Child Development II	3	0	0	3
Prerequisites: None					
Corequisites: DRE 097					
This course includes the theories of child development, observation and assessment, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on knowledge, observation and assessment of developmental sequences in approaches to play/learning, emotional/social, health/physical, language/communication and cognitive domains. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain biological and environmental factors that impact development, and identify evidence-based strategies for enhancing development for children that are culturally, linguistically, and ability diverse. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
EDU 146	Child Guidance	3	0	0	3
Prerequisites: None					
Corequisites: DRE 097					
This course introduces evidence-based strategies to build nurturing relationships with each child by applying principles and practical techniques to facilitate developmentally appropriate guidance. Topics include designing responsive/supportive learning environments, cultural, linguistic and socio-economic influences on behavior, appropriate expectations, the importance of communication with children/families including using technology and the use of formative assessments in establishing intentional strategies for children with unique needs. Upon completion, students should be able to demonstrate direct/indirect strategies to encourage social skills, self-regulation, emotional expression and positive behaviors while recognizing the relationship between children's social, emotional and cognitive development. FA					
EDU 151	Creative Activities	3	0	0	3
Prerequisites: None					
Corequisites: DRE 097					
This course introduces developmentally supportive creative learning environments with attention to divergent thinking, creative problem-solving, evidence-based teaching practices, and open-ended learning materials while applying NC Foundations for Early Learning and Development. Emphasis is placed on observation of process driven learning experiences in art, music, creative movement, dance, and dramatics for every young child age birth through eight, integrated through all domains and academic content. Upon completion, students should be able to examine, create, and adapt developmentally creative learning materials, experiences, and environments for children that are culturally, linguistically, and ability diverse. SP					
EDU 153	Health, Safety, & Nutrition	3	0	0	3
Prerequisites: None					
Corequisites: DRE 097					
This course covers promoting and maintaining the health and well-being of every child. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, health benefits of active play, recognition and reporting of abuse/neglect, and state regulations. Upon completion, students should be able to apply knowledge of NC Foundations for Early Learning and Development for health, safety, nutritional needs and safe learning environments. SP					
EDU 154	Social/Emotional/Behavioral Development	3	0	0	3
Prerequisites: EDU 144 and EDU 145					
Corequisites: DRE 097					
This course covers the emotional/social development of children and the causes, expressions, prevention, and management of challenging behaviors in all children. Emphasis is placed on caregiver/family/child relationships, positive emotional/social environments, developmental concerns, risk factors, and intervention strategies. Upon completion, students should be able to identify factors influencing emotional/social development, utilizing screening measures, and designing positive behavioral support. FA					

EDU 157	Active Play	2	2	0	3
Prerequisites: None					
Corequisites: DRE 097					
This course introduces physical activities to promote the development of the whole child, birth through middle childhood. Topics include active play, outdoor learning, design of the environment, development of play skills, loose parts play, nature play, risk benefit assessment, advocacy, and family/community connection. Upon completion, students should be able to discuss the stages of play, the role of teachers in play, active play environments, advocate for the child's right to play, and plan and assess appropriate experiences using NC Foundations for Early Learning and Development. SP					
EDU 161	Introduction to Exceptional Children	3	0	0	3
Prerequisites: None					
Corequisites: DRE 097					
This course covers children with exceptionalities as life long learners within the context of the community, school, and family. Emphasis is placed on inclusion, legal, social/political, environmental, and cultural issues relating to the teaching of children with exceptionalities. Upon completion, students should be able to demonstrate knowledge of identification processes, inclusive techniques, and professional practices and attitudes. SP					
EDU 184	Early Childhood Introductory Practicum	1	3	0	2
Prerequisites: EDU 119					
Corequisites: DRE 097					
This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children and assisting in the implementation of developmentally appropriate activities/environments for all children; and modeling reflective/professional practices. Upon completion, students should be able to demonstrate developmentally appropriate interactions with children and ethical/professional behaviors as indicated by assignments and on site faculty visits. FA					
EDU 188	Issues in Early Childhood Education	2	0	0	2
Prerequisites: None					
Corequisites: DRE 097					
This course covers topics and issues in early childhood education. Emphasis is placed on current advocacy issues, emerging technology, professional growth experiences, and other related topics. Upon completion, students should be able to list, discuss, and explain current topics and issues in early childhood education. SP					
EDU 216	Foundations of Education	3	0	0	3
Prerequisites: None					
Corequisites: DRE 098					
This course introduces the examination of the American educational systems and the teaching profession. Topics include the historical and philosophical influences on education, various perspectives on educational issues, and experiences in birth through grade 12 classrooms. Upon completion, students should be able to reflect on classroom observations, analyze the different educational approaches, including classical/traditional and progressive, and have knowledge of the various roles of educational systems at the federal, state and local level. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
EDU 221	Children with Exceptionalities	3	0	0	3
Prerequisites: EDU 144 and EDU 145					
Corequisites: DRE 098					
This course covers atypical patterns of child development, inclusive/diverse settings, evidenced-based educational/family plans, differentiated instruction, adaptive materials, and assistive technology. Emphasis is placed on the characteristics of exceptionalities and delays, early intervention/special education, transitions, observation, developmental screening, formative assessment of children, and collaborating with families and community partners. Upon completion, students should be able to recognize diverse abilities,					

EDU 261	Early Childhood Administration I	3	0	0	3
Prerequisites: None					
Corequisites: DRE 098 and EDU 119					
This course introduces principles and practices essential to preparing and supporting child care administrators. Topics include program philosophy, policies and procedures, NC Child Care Law and Rules, business planning, personnel and fiscal management, and NAEYC Code of Ethical Conduct Supplement for Early Childhood Program Administration. Upon completion, students should be able to articulate a developmentally appropriate program philosophy, locate current state licensing regulations, analyze a business plan and examine comprehensive program policies and procedures. SP					
EDU 262	Early Childhood Administration II	3	0	0	3
Prerequisites: DRE 098, EDU 119, and EDU 261					
Corequisites: None					
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. SP					
EDU 271	Educational Technology	2	2	0	3
Prerequisites: None					
Corequisites: DRE 098					
This course introduces the ethical use of technology to enhance teaching and learning in all educational settings. Emphasis is placed on technology concepts, ethical issues, digital citizenship, instructional strategies, assistive technology, and the use of technology for professional development and communication. Upon completion, students should be able to discuss technology concepts, ethically use a variety of technology resources, demonstrate appropriate technology skills in educational environments, and identify assistive technology. SP					
EDU 275	Effective Teacher Training	2	0	0	2
Prerequisites: None					
Corequisites: DRE 098					
This course provides specialized training using an experiential-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. FA					
EDU 280	Language & Literacy Experiences	3	0	0	3
Prerequisites: None					
Corequisites: DRE 098					
This course provides evidence-based strategies for enhancing language and literacy experiences that align with NC Foundations for Early Learning and Development. Topics include developmental sequences for children's emergent receptive and expressive language, print concepts, appropriate observations/assessments, literacy enriched environments, quality selection of diverse literature, interactive media, and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate language and literacy experiences for children who are culturally, linguistically and ability diverse. FA					
EDU 284	Early Child Capstone Practicum	1	9	0	4
Prerequisites: EDU 119, EDU 144, EDU 145, EDU 146, and EDU 151, or EDU 119, PSY 244, PSY 245, EDU 146, and EDU 151, or EDU 119, PSY 245, EDU 144, EDU 146, and EDU 151, or EDU 119, PSY 244, EDU 145, EDU 146, and EDU 151					
Corequisites: DRE 098					
This course is designed to allow students to demonstrate acquired 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/engaging families; and modeling reflective and professional practices based on national and state guidelines. Upon completion, students should be able to apply NC Foundations for Early Learning and Development to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors, including the use of appropriate technology, as indicated by assignments and onsite faculty assessments. SP

EGR 150 Introduction to Engineering 1 2 0 2

Prerequisites: None

Corequisites: None

This course is an overview of the engineering profession. Topics include goal setting and career assessment, ethics, public safety, the engineering method and design process, written and oral communication, interpersonal skills and team building, and computer applications. Upon completion, students should be able to understand the engineering process, the engineering profession, and utilize college resources to meet their educational goals. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.* FA

EGR 251 Statics 2 2 0 3

Prerequisites: None

Corequisites: None

This course covers the concepts and principles of statics. Topics include systems of forces and moments on structures in two- and three-dimensions in equilibrium. Upon completion, students should be able to analyze forces and moments on structures. FA

EGR 252 Strength of Materials 2 2 0 3

Prerequisites: EGR 251

Corequisites: None

This course covers the principles and concepts of stress and analysis. Topics include centroids, moments of inertia, shear/moment diagrams, and stress and strain. Upon completion, students should be able to perform a stress and strain analysis on structural components. SP

ELC 111 Intro to Electricity 2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces the fundamental concepts of electricity and test equipment to non-electrical/electronics majors. Topics include basic DC and AC principles (voltage, resistance, current, impedance), components (resistors, inductors, and capacitors), power, and operation of test equipment. Upon completion, students should be able to construct and analyze simple DC and AC circuits using electrical test equipment. FA

ELC 112 DC/AC Electricity 3 6 0 5

Prerequisites: None

Corequisites: None

This course introduces the fundamental concepts of and computations related to DC/AC electricity. Emphasis is placed on DC/AC circuits, components, operation of test equipment; and other related topics. Upon completion, students should be able to construct, verify, and analyze simple DC/AC circuits. FA

ELC 113 Residential Wiring 2 6 0 4

Prerequisites: None

Corequisites: None

This course introduces the care/usage of tools and materials used in residential electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical print 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 residential electrical installations. FA

ELC 115	Industrial Wiring	2	6	0	4
Prerequisites: None					
Corequisites: None					
This course covers layout, planning, and installation of wiring systems in industrial facilities. Emphasis is placed on industrial wiring methods and materials. Upon completion, students should be able to install industrial systems and equipment. SP					
ELC 117	Motors and Controls	2	6	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the fundamental concepts of motors and motor controls. Topics include ladder diagrams, pilot devices, contactors, motor starters, motors, and other control devices. Upon completion, students should be able to properly select, connect, and troubleshoot motors and control circuits. SP					
ELC 118	National Electrical Code	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers the use of the current National Electrical Code. Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC. SP					
ELC 128	Introduction to PLC	2	3	0	3
Prerequisites: None					
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 understand basic PLC systems and create simple programs. SP					
ELC 213	Instrumentation	3	2	0	4
Prerequisites: None					
Corequisites: None					
This course covers the fundamentals of instrumentation used in industry. Emphasis is placed on electric, electronic, and other instruments. Upon completion, students should be able to install, maintain, and calibrate instrumentation. SP					
ELC 215	Electrical Maintenance	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the theory of maintenance and the skills necessary to maintain electrical equipment found in industrial and commercial facilities. Topics include maintenance theory, predictive and preventive maintenance, electrical equipment operation and maintenance, and maintenance documentation. Upon completion, students should be able to perform maintenance on electrical equipment in industrial and commercial facilities. SP					
ELC 220	Photovoltaic Systems Tech	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the concepts, tools, techniques, and materials needed to understand systems that convert solar energy into electricity with photovoltaic (pv) technologies. Topics include site analysis for system integration, building codes, and advances in photovoltaic technology. Upon completion, students should be able to demonstrate an understanding of the principles of photovoltaic technology and current applications. SP					

ELN 131	Analog Electronics I	3	3	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the characteristics and applications of semiconductor devices and circuits. Emphasis is placed on analysis, selection, biasing, and applications. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog circuits using appropriate techniques and test equipment. FA					
ELN 132	Analog Electronics II	3	3	0	4
Prerequisites: None					
Corequisites: None					
This course covers additional applications of analog electronic circuits with an emphasis on analog and mixed signal integrated circuits (IC). Topics include amplification, filtering, oscillation, voltage regulation, and other analog circuits. Upon completion, students should be able to construct, analyze, verify, and troubleshoot analog electronic circuits using appropriate techniques and test equipment. SP					
ELN 133	Digital Electronics	3	3	0	4
Prerequisites: None					
Corequisites: None					
This course covers combinational and sequential logic circuits. Topics include number systems, Boolean algebra, logic families, medium scale integration (MSI) and large scale integration (LSI) circuits, analog to digital (AD) and digital to analog (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. FA					
ELN 231	Industrial Controls	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the fundamental concepts of control of rotating machinery and associated peripheral devices. Topics include rotating machine theory, ladder logic, electromechanical and solid state relays, motor controls, pilot devices, three-phase power systems, and other related topics. Upon completion, students should be able to interpret schematics and demonstrate an understanding of electromechanical and electronic control of rotating machinery. SP					
EMS 110	EMT	6	6	0	8
Prerequisites: Enrollment in Emergency Medical Science program					
Corequisites: None					
This course introduces basic emergency medical care. Topics include preparatory, airway, patient assessment, medical emergencies, trauma, infants and children, and operations. Upon completion, students should be able to demonstrate the knowledge and skills necessary to achieve North Carolina State or National Registry EMT certification.					
EMS 122	EMS Clinical Practicum I	0	0	3	1
Prerequisites: EMS 110, Enrollment in Emergency Medical Science program					
Corequisites: EMS 130					
This course provides the introductory hospital clinical experience for the paramedic student. Emphasis is placed on mastering fundamental paramedic skills. Upon completion, students should be able to demonstrate competence with fundamental paramedic level skills.					
EMS 125	EMS Instructor Methodology	1	2	0	2
Prerequisites: Enrollment in Emergency Medical Science program					
Corequisites: None					
This course covers the information needed to develop and instruct EMS courses. Topics include instructional methods, lesson plan development, time management skills, and theories of adult learning. Upon completion, students should be able to teach EMS courses and meet the North Carolina EMS requirements for instructor methodology. SP					

EMS 130	Pharmacology	3	3	0	4
Prerequisites: EMS 110, Enrollment in Emergency Medical Science program					
Corequisites: EMS 122					
This course introduces the fundamental principles of pharmacology and medication administration and is required for paramedic certification. Topics include medical terminology, pharmacological concepts, weights, measures, drug calculations, vascular access for fluids and medication administration and legislation. Upon completion, students should be able to accurately calculate drug dosages, properly administer medications, and demonstrate general knowledge of pharmacology.					
EMS 131	Advanced Airway Management	1	2	0	2
Prerequisites: EMS 110, Enrollment in Emergency Medical Science program					
Corequisites: None					
This course is designed to provide advanced airway management techniques and is required for paramedic certification. Topics include respiratory anatomy and physiology, airway/ventilation, adjuncts, surgical intervention, and rapid sequence intubation. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance.					
EMS 160	Cardiology I	1	3	0	2
Prerequisites: EMS 110, Enrollment in Emergency Medical Science program					
Corequisites: None					
This course introduces the study of cardiovascular emergencies and is required for paramedic certification. Topics include anatomy and physiology, pathophysiology, electrophysiology, and basic rhythm interpretation in the monitoring leads. Upon completion, students should be able to recognize and interpret basic rhythms.					
EMS 220	Cardiology II	2	3	0	3
Prerequisites: EMS 122, EMS 130, and EMS 160, Enrollment in Emergency Medical Science program					
Corequisites: None					
This course provides an in-depth study of cardiovascular emergencies and is required for paramedic certification. Topics include assessment and treatment of cardiac emergencies, application and interpretation of advanced electrocardiography utilizing the twelve-lead ECG, cardiac pharmacology, and patient care. Upon completion, students should be able to assess and treat patients utilizing American Heart Association guidelines.					
EMS 221	EMS Clinical Practicum II	0	0	6	2
Prerequisites: EMS 122 and EMS 130, Enrollment in Emergency Medical Science program					
Corequisites: None					
This course provides clinical experiences in the hospital and/or field. Emphasis is placed on increasing the proficiency of students' skills and abilities in patient assessments and the delivery of care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.					
EMS 231	EMS Clinical Practice III	0	0	9	3
Prerequisites: EMS 130 and EMS 221, Enrollment in Emergency Medical Science program					
Corequisites: None					
This course provides clinical experiences in the hospital and/or field. Emphasis is placed on enhancing the students' skills and abilities in providing advanced-level care. Upon completion, students should be able to demonstrate continued progress in advanced-level patient care.					
EMS 235	EMS Management	2	0	0	2
Prerequisites: Enrollment in Emergency Medical Science program					
Corequisites: None					
This course stresses the principles of managing a modern emergency medical service system. Topics include structure and function of municipal governments, EMS grantsmanship, finance, regulatory agencies, system management, legal issues, and other topics relevant to the EMS manager. Upon completion, students should be able to understand the principles of managing emergency medical service delivery systems. SP					

EMS 240 Patients With Special Challenges 1 2 0 2

Prerequisites: EMS 122 and EMS 130, Enrollment in Emergency Medical Science program

Corequisites: None

This course includes concepts of crisis intervention and techniques of interacting with patients with special challenges and is required for paramedic certification. Topics include appropriate intervention and interaction for neglected, abused, terminally ill, chronically ill, technology assisted, bariatric, physically challenged, mentally challenged, or assaulted patients as well as behavioral emergencies. Upon completion, students should be able to recognize and manage the care of patients with special challenges.

EMS 241 EMS Clinical Practicum IV 0 0 12 4

Prerequisites: EMS 130 and EMS 231, Enrollment in Emergency Medical Science program

Corequisites: None

This course provides clinical experiences in the hospital and/or field. Emphasis is placed on mastering the skills/competencies required of the paramedic providing advanced-level care. Upon completion, students should be able to provide advanced-level patient care as an entry-level paramedic.

EMS 250 Medical Emergencies 3 3 0 4

Prerequisites: EMS 122 and EMS 130, Enrollment in Emergency Medical Science program

Corequisites: None

This course provides an in-depth study of medical conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include appropriate interventions/treatments for disorders/diseases/injuries affecting the following systems: respiratory, neurological, abdominal/gastrointestinal, endocrine, genitourinary, musculoskeletal, and immunological as well as toxicology, infectious diseases and diseases of the eyes, ears, nose, and throat. Upon completion, students should be able to recognize, assess, and manage the care of frequently encountered medical conditions based upon initial patient assessment.

EMS 260 Trauma Emergencies 1 3 0 2

Prerequisites: EMS 122 and EMS 130, Enrollment in Emergency Medical Science program

Corequisites: None

This course provides in-depth study of trauma including pharmacological interventions for conditions frequently encountered in the prehospital setting and is required for paramedic certification. Topics include an overview of thoracic, abdominal, genitourinary, orthopedic, neurological and multi-system trauma, soft tissue trauma of the head, neck, and face as well as environmental emergencies. Upon completion, students should be able to recognize and manage trauma situations based upon patient assessment and should adhere to standards of care.

EMS 270 Life Span Emergencies 2 3 0 3

Prerequisites: EMS 122 and EMS 130, Enrollment in Emergency Medical Science program

Corequisites: None

This course covers medical/ethical/legal issues and the spectrum of age-specific emergencies from conception through death required for paramedic certification. Topics include gynecological, obstetrical, neonatal, pediatric, and geriatric emergencies and pharmacological therapeutics. Upon completion, students should be able to recognize and treat age-specific emergencies.

EMS 280 EMS Bridging Course 2 2 0 3

Prerequisites: Enrollment in Emergency Medical Science program

Corequisites: None

This course is designed to bridge the knowledge gained in a continuing education paramedic program with the knowledge gained in an EMS curriculum program. Emphasis is placed on patient assessment, advanced electrocardiography utilizing the twelve-lead ECG, advanced pharmacology, the appropriate intervention and treatment of multi-system injuries/disorders, ethics, and NC laws and rules. Upon completion, students should be able to perform advanced patient assessment and practice skills. FA

EMS 285	EMS Capstone	1	3	0	2
Prerequisites: EMS 220, EMS 250, and EMS 260, Enrollment in Emergency Medical Science program					
Corequisites: None					
This course provides an opportunity to demonstrate problem-solving skills as a team leader in simulated patient scenarios and is required for paramedic certification. Emphasis is placed on critical thinking, integration of didactic and psychomotor skills, and effective performance in simulated emergency situations. Upon completion, students should be able to recognize and appropriately respond to a variety of EMS-related events.					
ENG 111	Writing and Inquiry	3	0	0	3
Prerequisites: DRE 098; or appropriate CPT scores					
Corequisites: None					
This course is designed to develop the ability to produce clear writing in a variety of genres and formats using a recursive process. Emphasis includes inquiry, analysis, effective use of rhetorical strategies, thesis development, audience awareness, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. <i>This course has been approved for transfer under the CAA as a general education course in English Composition. This course has been approved for transfer under the ICAA as a general education course in English Composition. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP, SU					
ENG 112	Writing/Research in the Disciplines	3	0	0	3
Prerequisites: ENG 111					
Corequisites: None					
This course, the second in a series of two, introduces research techniques, documentation styles, and writing strategies. Emphasis is placed on analyzing information and ideas and incorporating research findings into documented writing and research projects. Upon completion, students should be able to evaluate and synthesize information from primary and secondary sources using documentation appropriate to various disciplines. <i>This course has been approved for transfer under the CAA as a general education course in English Composition. This course has been approved for transfer under the ICAA as a general education course in English Composition. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP, SU					
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. <i>This course has been approved for transfer under the CAA as a general education course in English Composition. This course has been approved for transfer under the ICAA as a general education course in English Composition.</i> FA, SP					
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. <i>This course has been approved for transfer under the CAA as a general education course in English Composition. This course has been approved for transfer under the ICAA as a general education course in English Composition.</i> FA, SP					

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. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA					
ENG 231	American Literature I	3	0	0	3
Prerequisites: ENG 112, 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 interpret literary works in their historical and cultural contexts. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SU					
ENG 232	American Literature II	3	0	0	3
Prerequisites: ENG 112, ENG 113, or ENG 114					
Corequisites: None					
This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to analyze and interpret literary works in their historical and cultural contexts. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i> SP					
ENG 241	British Literature I	3	0	0	3
Prerequisites: ENG 112, ENG 113, or ENG 114					
Corequisites: None					
This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. This course is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i> FA					
ENG 242	British Literature II	3	0	0	3
Prerequisites: ENG 112, 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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i> SP					

ENG 243	Major British Writers	3	0	0	3
Prerequisites: ENG 112, 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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i> FA, SP					
ENG 261	World Literature I	3	0	0	3
Prerequisites: ENG 112, 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 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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i> FA					
ENG 262	World Literature II	3	0	0	3
Prerequisites: ENG 112, 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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i> SP					
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. SP					
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. FA					
ETR 270	Entrepreneurship Issues	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces current and emerging entrepreneurship issues and opportunities. Topics include franchising, import/export, small business taxes, legal structures, negotiations, contract management, and time management. Upon completion, students should be able to apply a variety of analytical and decision-making requirements to start a new business. FA					

FRE 111 Elementary French I 3 0 0 3

Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores

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 is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA*

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 is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. SP*

GEL 111 Geology 3 2 0 4

Prerequisites: ENG 090 and RED 090 or DRE 098 or appropriate CPT scores

Corequisites: None

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Natural Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course.*

GEO 111 World Regional Geography 3 0 0 3

Prerequisites: ENG 080 and RED 080, or DRE 098, or appropriate CPT scores

Corequisites: None

This course introduces the regional concept that 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 is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.*

GER 111 Elementary German I 3 0 0 3

Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores

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 is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA*

GER 112	Elementary German II	3	0	0	3
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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i> SP					
GRD 110	Typography I	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the history and mechanics of type and its application to layout and design. Topics include typographic fundamentals, anatomy, measurements, composition, identification, and terminology. Upon completion, students should be able to demonstrate proficiency in design application, analysis, specification, and creation of typographic elements. FA					
GRD 113	History of Graphic Design	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the history of graphic design and visual communications. Topics include major trends, developments, influences, and directions. Upon completion, students should be able to understand, recognize, and analyze important historical and worldwide cultural influences found in today's marketing of ideas and products. FA					
GRD 121	Drawing Fundamentals I	1	3	0	2
Prerequisites: None					
Corequisites: None					
This course increases observation skills using basic drawing techniques and media in graphic design. Emphasis is placed on developing the use of graphic design principles, media applications, spatial considerations, drawing styles, and approaches. Upon completion, students should be able to show competence and proficiency in finished works. FA					
GRD 122	Drawing Fundamentals II	1	3	0	2
Prerequisites: GRD 121					
Corequisites: None					
This course is a continuation of GRD 121. Emphasis is placed on applying a unique style/approach to drawing from life situations and may include rendering human figures in action and repose. Upon completion, students should be able to show drawing competence and proficiency. SP					
GRD 131	Illustration I	1	3	0	2
Prerequisites: ART 131 or GRD 121 or DES 125					
Corequisites: None					
This course introduces the application of rendering techniques to create illustrations. Emphasis is placed on controlling various media, methods, surfaces, design problems, and the appropriate media selection process. Upon completion, students should be able to produce quality illustrations from conception through finished artwork. SP					
GRD 141	Graphic Design I	2	4	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the conceptualization process used in visual problem solving. Emphasis is placed on learning the principles of design and on the manipulation and organization of elements. Upon completion, students should be able to apply design principles and visual elements to projects. FA					

GRD 142	Graphic Design II	2	4	0	4
Prerequisites: ART 121 or GRD 141 or DES 135					
Corequisites: None					
This course covers the application of visual elements and design principles in advertising and graphic design. Topics include creation of various designs, such as logos, advertisements, posters, outdoor advertising, and publication design. Upon completion, students should be able to effectively apply design principles and visual elements to projects. SP					
GRD 151	Computer Design Basics	1	4	0	3
Prerequisites: None					
Corequisites: None					
This course covers designing and drawing with various types of software applications for advertising and graphic design. Emphasis is placed on creative and imaginative use of space, shapes, value, texture, color, and typography to provide effective solutions to advertising and graphic design problems. Upon completion, students should be able to use the computer as a creative tool. FA					
GRD 152	Computer Design Techniques I	1	4	0	3
Prerequisites: GRD 151					
Corequisites: None					
This course covers complex design problems utilizing various design and drawing software applications. Topics include the expressive use of typography, image and organization to communication a message. Upon completion, students should be able to use appropriate computer software to professionally present their work. SP					
GRD 167	Photographic Imaging I	1	4	0	3
Prerequisites: None					
Corequisites: None					
This course introduces basic camera operations and photographic production. Topics include subject composition, depth of field, shutter control, light control, color, photo-finishing, and digital imaging, correction and output. Upon completion, students should be able to produce traditional and/or digital photographic prints with acceptable technical and compositional quality. FA					
GRD 241	Graphic Design III	2	4	0	4
Prerequisites: GRD 142 or DES 136					
Corequisites: None					
This course is an advanced exploration of various techniques and media for advertising and graphic design. Emphasis is placed on advanced concepts and solutions to complex and challenging graphic design problems. Upon completion, students should be able to demonstrate competence and professionalism in visual problem solving. FA					
GRD 265	Digital Print Production	1	4	0	3
Prerequisites: GRD 151 or GRA 151					
Corequisites: None					
This course covers preparation of digital files for output and reproduction. Emphasis is placed on output options, separations, color proofing, and cost and design considerations. Upon completion, students should be able to prepare files and select appropriate output methods for design solutions. SP					
GRD 271	Multimedia Design I	1	3	0	2
Prerequisites: GRD 151 or GRA 151					
Corequisites: None					
This course introduces the fundamentals of multimedia design and production for computer-related presentations. Topics include interface design, typography, storyboarding, scripting, simple animation, graphics, digital audio video, and copyright issues. Upon completion, students should be able to design and produce multimedia presentations. SP					

GRD 272	Multimedia Design II	1	3	0	2
Prerequisites: GRD 271					
Corequisites: None					
This course is a continuation of GRD 271. Emphasis is placed on advanced animation, specialized software, quality control, and cross-platform delivery, as well as problems associated with delivery media and interactivity. Upon completion, students should be able to produce multimedia presentations and determine and adapt to technical specifications for delivery. SP					
GRD 275	Animation I	1	3	0	2
Prerequisites: GRD 151 or GRA 151					
Corequisites: None					
This course introduces the concepts and development of animation. Emphasis is placed on theory, storyboarding, narration, sequence implementation, appropriate software usage, and audio visual manipulation. Upon completion, students should be able to successfully complete computer-generated animated sequences. SP					
GRD 280	Portfolio Design	2	4	0	4
Prerequisites: GRD 142 and GRD 152; or GRD 142 and GRA 152					
Corequisites: None					
This course covers the organization and presentation of a design/advertising or graphic art portfolio and appropriate related materials. Emphasis is placed on development and evaluation of the portfolio, design and production of a résumé and self-promotional materials, and interview techniques. Upon completion, students should be able to prepare and professionally present an effective portfolio and related self-promotional materials. SP					
GRD 281	Design of Advertising	1	3	0	2
Prerequisites: None					
Corequisites: None					
This course explores the origins, roles, scope, forms, and development of advertising. Emphasis is placed on advertising development from idea through production and the interrelationship of marketing to types of advertising, media, and organizational structure. Upon completion, students should be able to produce advertising for various media and demonstrate an understanding of the complexities and relationships involved in advertising design. SP					
GRD 285	Client/Media Relations	1	2	0	2
Prerequisites: GRD 142 and GRD 152; or GRD 142 and GRA 152; or GRD 142 and GRA 121					
Corequisites: None					
This course introduces media pricing, scheduling, and business ethics. Emphasis is placed on communication with clients and determination of clients' advertising needs. Upon completion, students should be able to use professional communication skills to effectively orchestrate client/media relationships. FA					
GRO 120	Gerontology	3	0	0	3
Prerequisites: None					
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. SP					
GRO 250	Aging Policies Programs & Serv	2	0	0	2
Prerequisites: GRO 120					
Corequisites: None					
This course covers the development of state and federal policies, programs, and services for an aging population as a result of demographic shifts. Topics include initial federal programs addressing aging issues, emerging challenges and trends, the role of needs assessment and outcome measures that shape policies, and contemporary issues. Upon completion, students should be able to articulate about initial federal programs, assess emerging challenges and trends, demonstrate the value of needs assessments, and identify contemporary issues. SP					

HEA 110	Personal Health/Wellness	3	0	0	3
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. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.</i>					
HIS 111	World Civilizations I	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course.</i>					
HIS 112	World Civilizations II	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course. FA, SP</i>					
HIS 115	Intro to Global History	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the study of global history. Emphasis is placed on topics such as colonialism, industrialism, and nationalism. Upon completion, students should be able to analyze significant global historical issues. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.</i>					
HIS 131	American History I	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course. FA</i>					

HIS 132	American History II	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course.</i> SP					
HIS 145	The Second World War	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course covers the period of the Second World War from 1919 to 1945. Topics include the Treaty of Versailles, the rise of totalitarian regimes, the origins of the war, the major military campaigns in Europe and the Pacific, and the aftermath. Upon completion, students should be able to analyze significant political, military, socioeconomic, and cultural developments that influenced the Second World War. This course is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
HIS 221	African-American History	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
HIS 236	North Carolina History	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> SP					
HIT 211	ICD Coding	2	6	0	4
Prerequisites: BIO 163; MED 121 and MED 122 or OST 141 and OST 142					
Corequisites: None					
This course covers ICD diagnostics and procedural coding conventions and guidelines for inpatient, outpatient, and ambulatory care. Emphasis is placed on a comprehensive application of anatomy, physiology, and interrelationships among organ systems. Upon completion, students should be able to accurately assign and sequence diagnostic and procedural codes for patient outcomes, statistical and reimbursement purposes. FA					

HIT 214	CPT/Other Coding Systems	1	3	0	2
Prerequisites: HIT 211					
Corequisites: None					
This course covers application of principles and guidelines of CPT/HCPCS coding. Topics include clinical classification/nomenclature systems such as SNOMED, DSM, ICD-O and the use of encoders. Upon completion, students should be able to apply coding principles to correctly assign CPT/HCPCS codes. SP					
HRM 220	Cost Control-Food & Beverage	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces controls and accounting procedures as applied to costs in the hospitality industry. Topics include reports, cost control, planning and forecasting, control systems, financial statements, operational efficiencies, labor controls and scheduling. Upon completion, students should be able to demonstrate an understanding of food beverage, and labor cost control systems for operational troubleshooting and problem solving. SP					
HRM 225	Beverage Management	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the management of beverages served in hospitality operations. Topics include history and trends; service, procurement and storage; knowledge and control of wines and fermented/distilled beverages; and non-alcoholic beverages; coffees; and teas. Upon completion, students should be able to demonstrate an understanding of responsible alcohol service and the knowledge of beverages consumed in a hospitality operation. FA					
HRM 245	Human Resource Mgmt-Hosp	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces a systematic approach to human resource management in the hospitality industry. Topics include training/development, staffing, selection, hiring, recruitment, evaluation, benefit administration, employee relations, labor regulations/laws, discipline, motivation, productivity, shift management, contract employees and organizational culture. Upon completion, students should be able to apply human resource management skills for the hospitality industry. FA					
HSE 110	Introduction to Human Services	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the human services field, including the history, agencies, roles, and careers. Topics include personal/professional characteristics, diverse populations, community resources, disciplines in the field, systems, ethical standards, and major theoretical and treatment approaches. Upon completion, students should be able to identify the knowledge, skills, and roles of the human services worker. FA					
HSE 112	Group Process I	1	2	0	2
Prerequisites: Enrollment in the HSE program or CTE Pathway					
Corequisites: None					
This course introduces interpersonal concepts and group dynamics. Emphasis is placed on self-awareness facilitated by experiential learning in small groups with analysis of personal experiences and the behavior of others. Upon completion, students should be able to show competence in identifying and explaining how people are influenced by their interactions in group settings. FA					
HSE 123	Interviewing Techniques	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course covers the purpose, structure, focus, and techniques employed in effective interviewing. Emphasis is placed on observing, attending, listening, responding, recording, and summarizing of personal histories with instructor supervision. Upon completion, students should be able to perform the basic interviewing skills needed to function in the helping relationship. SP					

HSE 125	Counseling	2	2	0	3
Prerequisites: None					
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. FA					
HSE 210	Human Services Issues	2	0	0	2
Prerequisites: Successful completion of 12 SHC in the HSE program					
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 multi-faceted field. Upon completion, students should be able to integrate the knowledge, skills, and experiences gained in classroom and clinical experiences with emerging trends in the field. SP					
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. FA					
HSE 225	Crisis Intervention	3	0	0	3
Prerequisites: None					
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. FA					
HSE 242	Family Systems	3	0	0	3
Prerequisites: PSY 150 or SOC 210					
Corequisites: None					
This course introduces the concepts of family structure as a system and includes the impact of contemporary society on the family. Topics include systems theory, family structure, blended families, divorce, adoption, and the elderly. Upon completion, students should be able to demonstrate an understanding of families as a system and the impact of change on family structure. SP					
HUM 115	Critical Thinking	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the use of critical thinking skills in the context of human conflict. Emphasis is placed on information, problem solving, approaching cross-cultural perspectives, and resolving controversies and dilemmas. Upon completion, students should be able to demonstrate orally and in writing the use of critical thinking skills in the analysis of appropriate texts. This is a capstone course for students in the AA and AS Degrees and requires satisfactory completion of an e-portfolio. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i>					
HUM 120	Cultural Studies	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the distinctive features of a particular culture. Topics include art, history, music, literature, politics, philosophy, and religion. Upon completion, students should be able to appreciate the unique character of the study culture. This course is inherently global/diverse in content. <i>This course</i>					

has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course is inherently global/diverse in content. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. SU

HUM 130 Myth in Human Culture 3 0 0 3

Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores

Corequisites: None

This course provides an in-depth study of myths and legends. Topics include the varied sources of myths and their influence on the individual and society within diverse cultural contexts. Upon completion, students should be able to demonstrate a general familiarity with myths and a broad-based understanding of the influence of myths and legends on modern culture. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA, SP*

HUM 160 Introduction to Film 2 2 0 3

Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores

Corequisites: None

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values 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 for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA*

HUM 211 Humanities I 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA*

HUM 212 Humanities II 3 0 0 3

Prerequisites: ENG 111

Corequisites: None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. SP*

HYD 110 Hydraulics/Pneumatics I 2 3 0 3

Prerequisites: None

Corequisites: None

This course introduces the basic components and functions of hydraulic and pneumatic systems. Topics include standard symbols, pumps, control valves, control assemblies, actuators, FRL, maintenance procedures, and switching and control devices. Upon completion, students should be able to understand the operation of a fluid power system, including design, application, and troubleshooting. SP

HYD 121	Hydraulics/Pneumatics II	1	3	0	2
Prerequisites: HYD 110					
Corequisites: None					
This course is a continuation of HYD 110 and provides further investigation into fluid power systems. Topics include advanced system components, troubleshooting, and other related topics. Upon completion, students should be able to demonstrate an understanding of the installation, operation, and maintenance of fluid power components and systems. SP					
HYD 210	Advanced Hydraulics	1	3	0	2
Prerequisites: HYD 110, HYD 111, or HYD 112					
Corequisites: None					
This course covers advanced hydraulic systems. Emphasis is placed on advanced hydraulic systems and components, troubleshooting, and other related topics. Upon completion, students should be able to demonstrate an understanding of the installation, application, operation, and maintenance of hydraulic components and systems. SP					
ISC 112	Industrial Safety	2	0	0	2
Prerequisites: None					
Corequisites: None					
This course introduces the principles of industrial safety. Emphasis is placed on industrial safety and OSHA regulations. Upon completion, students should be able to demonstrate knowledge of a safe working environment and OSHA compliance. SP					
ISC 132	Mfg Quality Control	2	3	0	3
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. SP					
JOU 110	Intro to Journalism	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course presents a study of journalistic news, feature, and sports writing. Emphasis is placed on basic news writing techniques and on related legal and ethical issues. Upon completion, students should be able to gather, write, and edit news, feature, and sports articles. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. FA</i>					
LEX 110	Introduction to Paralegal Study	2	0	0	2
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the paralegal profession and the legal system, and an emphasis is placed on the role of professional and legal ethics. Topics include regulations, ethics, case analysis, legal reasoning, career opportunities, professional organizations, terminology, and other related topics. Upon completion, students should be able to explain the role of a paralegal and identify the skills, knowledge, and ethics required of paralegals. FA					
LEX 120	Legal Research/Writing I	2	2	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the techniques of legal research and writing. Emphasis is placed on locating, analyzing, applying, and updating sources of law; effective legal writing, including proper citation; and the use of electronic research methods. Upon completion, students should be able to perform legal research and writing assignments using techniques covered in the course. FA					

LEX 130	Civil Injuries	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course covers traditional tort concepts and the evolving body of individual rights created by statute. Topics include intentional and non-intentional torts with emphasis on negligence, strict liability, civil rights, workplace and environmental liability, remedies, and damages. Upon completion, students should be able to recognize, explain, and evaluate elements of civil injuries and related defenses. SP					
LEX 140	Civil Litigation I	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the structure of the legal system and the rules governing civil litigation. Topics include jurisdiction, state and federal rules of civil procedure and evidence. Upon completion, students should be able to assist an attorney in pre-litigation matters and preparation of pleadings and motions. FA					
LEX 141	Civil Litigation II	2	2	0	3
Prerequisites: LEX 140					
Corequisites: None					
This course covers advanced topics in the civil litigation process. Topics include motions, discovery, and trial and appellate procedures. Upon completion, students should be able to assist an attorney in preparing and organizing documents for trial, settlement and post-trial practice.SP					
LEX 150	Commercial Law I	2	2	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course covers legally enforceable agreements, forms of organization, and selected portions of the Uniform Commercial Code. Topics include drafting and enforcement of contracts, leases, and related documents and selection and implementation of business organization forms, sales, and commercial papers. Upon completion, students should be able to apply the elements of a contract, prepare various business documents, and understand the role of commercial paper. FA					
LEX 210	Real Property I	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the study of real property law. Topics include the distinction between real and personal property, various estates, mechanics of conveyance and encumbrance, recordation, special proceedings, and other related topics. Upon completion, students should be able to identify estates, forms of deeds, requirements for recording, and procedures to enforce rights to real property. FA					
LEX 211	Real Property II	1	4	0	3
Prerequisites: LEX 210					
Corequisites: None					
This course continues the study of real property law relating to title examination and preparation of closing documents. Topics include use of courthouse and other public records in title examination and preparation of documents required in real estate transactions and closings. Upon completion, students should be able to plot/draft a description, perform complete title examination, draft closing documents including title insurance forms, and prepare disbursement reconciliation. SP					
LEX 220	Corporate Law	2	0	0	2
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course covers the legal aspects of forming, operating, and maintaining a business. Emphasis is placed on the business corporation with additional coverage of sole proprietorships and partnerships. Upon completion, students should be able to draft basic partnership and corporate documents and file these documents as required. SP					

LEX 240	Family Law	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course covers laws governing domestic relations. Topics include marriage, separation, divorce, child custody, support, property division, adoption, domestic violence, and other related topics. Upon completion, students should be able to interview clients, gather information, and draft documents related to family law. FA					
LEX 250	Wills, Estates, & Trusts	2	2	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course covers various types of wills, trusts, probate, estate administration, and intestacy. Topics include types of wills and execution requirements, caveats and dissents, intestate succession, inventories and accountings, distribution and settlement, and other related topics. Upon completion, students should be able to draft simple wills, prepare estate forms, understand administration of estates including taxation, and explain terms regarding trusts. SP					
LEX 280	Ethics & Professionalism	2	0	0	2
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course reinforces legal ethics and the role of the paralegal in a professional work environment. Topics include a review of ethics, employment opportunities, and search techniques; paralegal certification and other related topics. Upon completion, students should be able to understand the paralegal's role in the ethical practice of law. SP					
MAC 111	Machining Technology I	2	12	0	6
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. FA					
MAC 112	Machining Technology II	2	12	0	6
Prerequisites: None					
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. SP					
MAC 113	Machining Technology III	2	12	0	6
Prerequisites: None					
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. SP					
MAC 114	Introduction to Metrology	2	0	0	2
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. FA					

MAC 121	Introduction to CNC	2	0	0	2
Prerequisites: None					
Corequisites: None					
This course introduces the concepts and capabilities of computer numerical control machine tools. Topics include setup, operation, and basic applications. Upon completion, students should be able to explain operator safety, machine protection, data input, program preparation, and program storage. FA					
MAC 122	CNC Turning	1	3	0	2
Prerequisites: None					
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. SP					
MAC 124	CNC Milling	1	3	0	2
Prerequisites: None					
Corequisites: None					
This course introduces the manual programming, setup, and operation of CNC machining centers. Topics include programming formats, control functions, program editing, part production, and inspection. Upon completion, students should be able to manufacture simple parts using CNC machining centers. SP					
MAC 132	Blueprint Reading/Mach II	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course introduces more complex industrial blueprints. Emphasis is placed on auxiliary views, section views, violations of true project, special views, application of GD & T, and interpretation of complex parts. Upon completion, students should be able to read and interpret complex industrial blueprints. SP					
MAC 151	Machining Calculations	1	2	0	2
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. FA					
MAC 152	Adv Machining Calculations	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course combines mathematical functions with practical machine shop applications and problems. Emphasis is placed on gear ratios, lead screws, indexing problems, and their applications in the machine shop. Upon completion, students should be able to calculate solutions to machining problems. SP					
MAC 241	Jigs & Fixtures I	2	6	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the application and use of jigs and fixtures. Emphasis is placed on design and manufacture of simple jigs and fixtures. Upon completion, students should be able to design and build simple jigs and fixtures. FA					
MAC 243	Die Making I	2	6	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the principles and applications of die making. Topics include types, construction, and application of dies. Upon completion, students should be able to design and build simple dies. SP					

MAC 245	Mold Construction I	2	6	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the principles of mold making. Topics include types, construction, and application of molds. Upon completion, students should be able to design and build simple molds. SP					
MAT 001P	Math Skills Support	0	2	0	1
Prerequisites: None					
Corequisites: MAT 171 Prerequisites:					
This course provides opportunities for students to build a stronger foundation for success in their corequisite math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the corequisite math course. Upon completion, students should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's corequisite math course. SP					
MAT 001Q	Math Skills Support	0	2	0	1
Prerequisites: None					
Corequisites: MAT 143					
This course provides opportunities for students to build a stronger foundation for success in their corequisite math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the corequisite math course. Upon completion, students should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's corequisite math course. SP					
MAT 001S	Math Skills Support	0	2	0	1
Prerequisites: None					
Corequisites: MAT 152					
This course provides opportunities for students to build a stronger foundation for success in their corequisite math course by obtaining skills through a variety of instructional strategies. Emphasis is placed on foundational skills as well as concepts, skills, vocabulary and definitions necessary to master student learning outcomes of the corequisite math course. Upon completion, students should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's corequisite math course. SP					
MAT 143	Quantitative Literacy	2	2	0	3
Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DRE 098; or appropriate CPT scores;					
Corequisites: None					
This course is designed to engage students in complex and realistic situations involving the mathematical phenomena of quantity, change and relationship, and uncertainty through project- and activity-based assessment. Emphasis is placed on authentic contexts which will introduce the concepts of numeracy, proportional reasoning, dimensional analysis, rates of growth, personal finance, consumer statistics, practical probabilities, and mathematics for citizenship. Upon completion students should be able to utilize quantitative information as consumers and to make personal, professional, and civic decisions by decoding, interpreting, using, and communicating quantitative information found in modern media and encountered in everyday life. <i>This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative). This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative). This is a Universal General Education Transfer Component (UGETC) course.</i>					

MAT 152	Statistical Methods I	3	2	0	4
Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DRE 098; or appropriate CPT scores;					
Corequisites: None					
This course provides a project-based approach to introductory statistics with an emphasis on using real-world data and statistical literacy. Topics include descriptive statistics, correlation and regression, basic probability, discrete and continuous probability distributions, confidence intervals and hypothesis testing. Upon completion students should be able to use appropriate technology to describe important characteristics of a data set, draw inferences about a population from sample data, and interpret and communicate results. <i>This course has been approved for transfer under the CAA as a general education course in Mathematics (Quantitative). This course has been approved for transfer under the ICAA as a general education course in Mathematics (Quantitative). This is a Universal General Education Transfer Component (UGETC) course.</i>					
MAT 171	Precalculus Algebra	3	2	0	4
Prerequisites: DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, and DMA 080; or appropriate CPT scores; or MAT 121					
Corequisites: None					
This course is designed to develop topics which are fundamental to the study of Calculus. Emphasis is placed on solving equations and inequalities, solving systems of equations and inequalities, and analysis of functions (absolute value, radical, polynomial, rational, exponential, and logarithmic) in multiple representations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to algebra-related problems with and without technology. <i>This course has been approved for transfer under the CAA as a general education course in Mathematics. This course has been approved for transfer under the ICAA as a general education course in Mathematics. This is a Universal General Education Transfer Component (UGETC) course.</i>					
MAT 172	Precalculus Trigonometry	3	2	0	4
Prerequisites: MAT 171					
Corequisites: None					
This course is designed to develop an understanding of topics which are fundamental to the study of Calculus. Emphasis is placed on the analysis of trigonometric functions in multiple representations, right and oblique triangles, vectors, polar coordinates, conic sections, and parametric equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to trigonometry-related problems with and without technology. <i>This course has been approved for transfer under the CAA as a general education course in Mathematics. This course has been approved for transfer under the ICAA as a general education course in Mathematics. This is a Universal General Education Transfer Component (UGETC) course.</i>					
MAT 263	Brief Calculus	3	2	0	4
Prerequisites: MAT 171					
Corequisites: None					
This course is designed to introduce concepts of differentiation and integration and their applications to solving problems. Topics include graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results. <i>This course has been approved for transfer under the CAA as a general education course in Mathematics. This course has been approved for transfer under the ICAA as a general education course in Mathematics. This is a Universal General Education Transfer Component (UGETC) course. SP</i>					
MAT 271	Calculus I	3	2	0	4
Prerequisites: MAT 172					
Corequisites: None					
This course is designed to develop the topics of differential and integral calculus. Emphasis is placed on limits, continuity, derivatives and integrals of algebraic and transcendental functions of one variable. Upon completion, students should be able to select and use appropriate models and techniques for finding					

MEC 142	Physical Metallurgy	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers the heat treating of metals. Emphasis is placed on the effects of hardening, tempering, and annealing on the structure and physical properties of metals. Upon completion, students should be able to heat treat materials. SP					
MEC 145	Manufacturing Materials I	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces a variety of manufacturing materials and common processing techniques. Emphasis is placed on the processing, testing, and application of materials such as wood, metals, plastics, ceramics, and composites. Upon completion, students should be able to demonstrate an understanding of fundamental engineering applications for a variety of materials, including their process capabilities and limitations. FA					
MEC 151	Mechanical Manufacturing Systems	1	3	0	2
Prerequisites: None					
Corequisites: None					
This course covers mechanical systems and sub-systems including timing cams, cam followers, timing belts, servo-motors, mechanical drive units, bearings, and mechanical linkage. Emphasis will be placed on the understanding of these components and their integration into operating systems. Upon completion, students should be able to diagnose mechanical problems using a structured approach to troubleshooting mechanical systems and sub-systems. SP					
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. FA					
MEC 260	Fundamentals of Machine Design	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the fundamental principles of machine design. Topics include simple analysis of forces, moments, stresses, strains, friction, kinematics, and other considerations for designing machine elements. Upon completion, students should be able to analyze machine components and make component selections from manufacturers' catalogs. SP					
MED 110	Orientation to Medical Assisting	1	0	0	1
Prerequisites: DRE 098; or appropriate CPT scores					
Corequisites: None					
This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting. FA, SP					
MED 118	Medical Law and Ethics	2	0	0	2
Prerequisites: DRE 098; or appropriate CPT scores					
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: DRE 098; or appropriate CPT scores					
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. FA, SP, SU					
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. FA, SP, SU					
MED 130	Administrative Office Procedures I	1	2	0	2
Prerequisites: DRE 098; or appropriate CPT scores					
Corequisites: None					
This course introduces medical office administrative procedures. Topics include appointment processing, written and oral communications, medical records, patient orientation, and safety. Upon completion, students should be able to perform basic administrative skills within the medical environment. FA, SP					
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. FA, SP					
MED 136	Preventive Health	2	0	0	2
Prerequisites: Enrollment in the Medical Assisting program					
Corequisites: None					
This course provides information on public school and community health issues at all levels and preventive measures for prevalent diseases in the schools. Topics include healthy lifestyles, disease prevention, child psychology, and holistic health. Upon completion, students should be able to present information to all age levels concerning health issues, disease prevention, and attainment of health lifestyles.					
MED 138	Infection/Hazard Control	2	0	0	2
Prerequisites: Enrollment in the Medical Assisting program					
Corequisites: None					
This course introduces the student to infection and hazard control procedures necessary for the healthcare worker. Topics include introduction to Microbiology, Practical Infection Control, Sterilization and Monitoring, Chemical Disinfectants, Aseptic Technique, infectious diseases, and applicable North Carolina laws. Upon completion, students should be able to demonstrate an understanding in infectious diseases, disease transmission, infection control procedures, biohazard management, OSH standards and applicable North Carolina Laws.					
MED 140	Examination Room Procedures I	3	4	0	5
Prerequisites: Enrollment in the Medical Assisting program					
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. SP					

MED 150	Laboratory Procedures I	3	4	0	5
Prerequisites: Enrollment in Medical Assisting or MLA programs					
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. FA, SP					
MED 230	Admin Office Procedures III	1	2	0	2
Prerequisites: MED 131; Enrollment in the Medical Assisting program					
Corequisites: None					
This course provides advanced medical office administrative procedures. Emphasis is placed on management skills including personnel supervision, practice management, public relations, and insurance coding. Upon completion, students should be able to exhibit advanced managerial medical assisting skills.					
MED 260	MED Clinical Practicum	0	0	15	5
Prerequisites: Enrollment in the Medical Assisting program; and MED 131, MED 140, and MED 150					
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. SU					
MED 264	Medical Assisting Overview	2	0	0	2
Prerequisites: Enrollment in the MA program, or graduate of a CAAHEP accredited program, or MA recertifying;					
Corequisites: None					
This course provides an overview of the complete medical assisting curriculum. Emphasis is placed on all facets of medical assisting pertinent to administrative, laboratory, and clinical procedures performed in the medical environment. Upon completion, students should be able to demonstrate competence in the areas covered on the national certification examination for medical assistants. FA					
MED 270	Symptomatology	2	2	0	3
Prerequisites: Enrollment in the Medical Assisting program, and MED 121					
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 action.					
MED 272	Drug Therapy	3	0	0	3
Prerequisites: 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. SP					
MKT 120	Principles of Marketing	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces principles and problems of marketing goods and services. Topics include promotion, placement, and pricing strategies for products. Upon completion, students should be able to apply marketing principles in organizational decision-making. FA					

MNT 110	Intro to Maint 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. FA					
MNT 111	Maintenance Practices	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course provides in-depth theory and practical applications, relating to predictive and preventive maintenance programs. Emphasis is placed on equipment failure analysis, maintenance management software, and techniques such as vibration and infrared analysis. Upon completion, students should be able to demonstrate an understanding of modern analytical and documentation methods. FA					
MSK 110	Musculoskeletal Sonography I	2	2	3	4
Prerequisites: Enrollment in MSK Program					
Corequisites: None					
This course introduces musculoskeletal (MSK) sonography. Emphasis is placed on the sonographic anatomy of the upper and lower extremities with correlated laboratory exercises. Upon completion, students should be able to recognize and acquire basic MSK images and correlate with normal anatomical structures.					
MSK 111	Musculoskeletal Sonography II	1	2	3	3
Prerequisites: Enrollment in MSK Program					
Corequisites: MSK 110					
This course covers musculoskeletal (MSK) pathology recognizable on sonograms. Emphasis is placed on abnormal MSK sonograms with correlated sonographic cases. Upon completion, students should be able to recognize pathological processes seen in sonographic examinations.					
MSK 112	Musculoskeletal Sonography III	2	2	0	3
Prerequisites: Enrollment in MSK Program					
Corequisites: MSK 110					
This course provides additional musculoskeletal (MSK) sonography applications which may include pediatrics and interventional studies. Emphasis is placed on interventional and pediatric applications. Upon completion, students should be able to recognize and acquire MSK images used in interventional and pediatric applications.					
MSK 189	Musculoskeletal Topics	2	0	0	2
Prerequisites: Enrollment in MSK Program					
Corequisites: MSK 110					
This course provides an overview of musculoskeletal (MSK) sonography. Emphasis is placed on registry preparation. Upon completion, students should be able to demonstrate comprehensive knowledge of musculoskeletal sonography and may be eligible to take the American Registry of Diagnostic Medical Sonography MSK registry exam.					
MUS 110	Music Appreciation	3	0	0	3
Prerequisites: ENG 080 and RED 080; or DRE 098; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP					

MUS 112	Introduction to Jazz	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the origins and musical components of jazz and the contributions of its major artists. Emphasis is placed on the development of discriminating listening habits, as well as the investigation of the styles and structural forms of the jazz idiom. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i> FA					
NAS 101	Nurse Aide I	3	4	3	6
Prerequisites: Enrollment in Nurse Aide program					
Corequisites: None					
This course includes basic nursing skills required to provide safe, competent, personal care for individuals. Emphasis is placed on person-centered care, the aging process, communication, safety/emergencies, infection prevention, legal and ethical issues, vital signs, height and weight measurements, elimination, nutrition, basic restorative care/rehabilitation, dementia, mental health and end-of-life care. Upon completion, students should be able to demonstrate knowledge and skills and be eligible to test for listing on the North Carolina Nurse Aide I Registry.					
NAS 102	Nurse Aide II	3	2	6	6
Prerequisites: NAS 101, Enrollment in Nurse Aide program					
Corequisites: None					
This course provides training in Nurse Aide II tasks. Emphasis is placed on the role of the Nurse Aide II, sterile technique and specific tasks such as urinary catheterization, wound care, respiratory procedures, ostomy care, peripheral IV assistive activities, and alternative feeding methods. Upon completion, students should be able to demonstrate knowledge and skills and safe performance of skills necessary to be eligible for listing on the North Carolina Nurse Aide II Registry.					
NAS 107	Medication Aide	0	2	0	1
Prerequisites: Enrollment in Nurse Aide program					
Corequisites: None					
This course will cover the six rights of medication administration for non-licensed personnel. Topics will include medication administration via the oral, topical and installation routes, medical asepsis, hand hygiene, terminology, and legal implications. Upon completion, students should be able to demonstrate skills necessary to qualify as a Medication Aide with the North Carolina Nurse Aide Registry.					
NET 225	Routing and Switching I	1	4	0	3
Prerequisites: None					
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. FA					
NET 226	Routing and Switching II	1	4	0	3
Prerequisites: None					
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. SP					

NOS 110	Operating System Concepts	2	3	0	3
Prerequisites: None					
Corequisites: None					
The 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, students will have an understanding of OS concepts, installation, management, and maintenance, using a variety of operating systems. FA					
NOS 120	Linux/UNIX Single User	2	2	0	3
Prerequisites: None					
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. FA					
NOS 130	Windows Single User	2	2	0	3
Prerequisites: None					
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. SP					
NOS 230	Windows Administration I	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course covers the installation and configuration of a Windows Server operating system. Emphasis is placed on the basic configuration of core network services, Active Directory and group policies. Upon completion, students should be able to install and configure a Windows Server operating system. SP					
NUR 101	Practical Nursing I	7	6	6	11
Prerequisites: Enrollment in the PN program					
Corequisites: BIO 163					
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 assessment, clinical decision making, professional behaviors, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching/learning, safety, ethical principles, legal issues, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course. FA					
NUR 102	Practical Nursing II	7	0	9	10
Prerequisites: NUR 101, Enrollment in the PN program					
Corequisites: ENG 111					
This course is designed to further develop the concepts within the three domains of the individual, nursing, and healthcare. Emphasis is placed on the concepts within each domain including clinical decision making, caring interventions, biophysical and psychosocial concepts, communication, collaboration, teaching and learning, accountability, safety, informatics, and evidence-based practice. Upon completion, students should be able to provide safe nursing care across the lifespan incorporating the concepts identified in this course. SP					

NUR 103	Practical Nursing III	6	0	9	9
Prerequisites: NUR 101, Enrollment in the PN program					
Corequisites: NUR 102, ENG 111					
This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on biophysical and psychosocial concepts, professional behaviors, healthcare systems, health policy, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide safe, quality, and individualized entry level nursing care. SU					
NUR 103AB	Practical Nursing III (Part one)	3	0	0	3
NUR 103BB	Practical Nursing III (Part two)	3	0	9	6
NUR 107	LPN Refresher	9	0	9	12
Prerequisites: Enrollment in the LPN Refresher Certificate program					
Corequisites: None					
This refresher course is designed to provide an independent didactic review for the previously licensed practical nurse whose license has lapsed. Emphasis is placed on common medical-surgical conditions and nursing interventions, including mental health principles, pharmacological concepts, and safe clinical practice. Upon completion, students will be eligible to apply for reinstatement of licensure. FA, SP					
NUR 111	Introduction to Health Concepts	4	6	6	8
Prerequisites: Enrollment in the ADN program					
Corequisites: None					
This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. FA					
NUR 112	Health-Illness Concepts	3	0	6	5
Prerequisites: NUR 111, Enrollment in the ADN program					
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 acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. SP					
NUR 113	Family Health Concepts	3	0	6	5
Prerequisites: NUR 111, Enrollment in the ADN program					
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. FA					
NUR 114	Holistic Health Concepts	3	0	6	5
Prerequisites: NUR 111, Enrollment in the ADN program					
Corequisites: None					
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. FA					

NUR 211	Health Care Concepts	3	0	6	5
Prerequisites: NUR 111, Enrollment in the ADN program					
Corequisites: None					
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. SP					
NUR 212	Health System Concepts	3	0	6	5
Prerequisites: NUR 111, Enrollment in the ADN program					
Corequisites: None					
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. SU					
NUR 212AB	Health System Concepts	3	0	0	3
NUR 212BB	Health System Concepts	0	0	6	2
NUR 213	Complex Health Concepts	4	3	15	10
Prerequisites: NUR 111, Enrollment in the ADN program					
Corequisites: NUR 112, NUR 113, NUR 114, NUR 211, and NUR 212					
This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry-level nursing care. SP					
OST 131	Keyboarding	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers basic keyboarding skills. Emphasis is placed on the touch system, correct techniques, and development of speed and accuracy. Upon completion, students should be able to key at an acceptable speed and accuracy level using the touch system. FA, SP					
OST 134	Text Entry & Formatting	2	2	0	3
Prerequisites: OST 131					
Corequisites: None					
This course is designed to provide skills needed to increase speed, improve accuracy, and format documents. Topics include letters, memos, tables, and business reports. Upon completion, students should be able to produce documents and key timed writings at speeds commensurate with employability. FA, SP					
OST 136	Word Processing	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course is designed to introduce word processing concepts and applications. Topics include preparation of a variety of documents and mastery of specialized software functions. Upon completion, students should be able to work effectively in a computerized word processing environment. SP					

OST 148	Medical Coding Billing & Insurance	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces fundamentals of medical coding, billing, and insurance. Emphasis is placed on the medical billing cycle to include third-party payers, coding concepts, and forms preparation. Upon completion, students should be able to explain the life cycle of and accurately complete a medical insurance claim. FA					
OST 149	Medical Legal Issues	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the complex legal, moral, and ethical issues involved in providing health-care services. Emphasis is placed on the legal requirements of medical practices; the relationship of physician, patient, and office personnel; professional liabilities; and medical practice liability. Upon completion, students should be able to demonstrate a working knowledge of current medical law and accepted ethical behavior. SP					
OST 164	Office Editing	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course provides a comprehensive study of editing skills needed in the workplace. Emphasis is placed on grammar, punctuation, sentence structure, proofreading, and editing. Upon completion, students should be able to use reference materials to compose and edit text. FA					
OST 184	Records Management	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course includes the creation, maintenance, protection, security, and disposition of records stored in a variety of media forms. Topics include alphabetic, geographic, subject, and numeric filing methods. Upon completion, students should be able to set up and maintain a records management system. FA					
OST 236	Advanced Word 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. FA, SP					
OST 243	Medical Office Simulation	2	2	0	3
Prerequisites: OST 148					
Corequisites: None					
This course introduces medical systems used to process information in the automated office. Topics include traditional and electronic information resources, storing and retrieving information, and the billing cycle. Upon completion, students should be able to use the computer accurately to schedule, bill, update, and make corrections. SP					
OST 247	Procedure Coding	2	2	0	3
Prerequisites: MED 121 or OST 141					
Corequisites: None					
This course provides in-depth coverage of procedural coding. Emphasis is placed on CPT and HCPCS coding systems. Upon completion, students should be able to properly code procedures and services performed in a medical facility. FA					
OST 248	Diagnostic Coding	2	2	0	3
Prerequisites: MED 121 or OST 141					
Corequisites: None					
This course provides an in-depth study of diagnostic coding. Emphasis is placed on ICD coding systems. Upon completion, students should be able to properly code diagnoses in a medical facility. FA					

OST 249	Medical Coding Certification Prep	2	3	0	3
Prerequisites: OST 247 and OST 248					
Corequisites: None					
This course provides instruction that will prepare students to sit for a national coding certification exam. Topics include diagnostic and procedural coding. Upon completion, students should be able to sit for various medical coding certification exams. SP					
OST 250	Long-Term Care Coding	2	2	0	3
Prerequisites: MED 121 or OST 141					
Corequisites: None					
This course covers diagnostic coding as it applies to long-term care facilities and home care. Topics include diagnostic coding and reimbursement in long-term care facilities and home care. Upon completion, students should be able to properly code conditions for long-term care and home care services. SP					
OST 260	Advanced Coding Methodologies	2	2	0	3
Prerequisites: OST 247 and OST 248					
Corequisites: None					
This course provides advanced instruction in a variety of emergent methodologies in medical coding. Topics include advanced outpatient coding, inpatient coding, risk adjustment coding, online encoder software, Correct Coding Initiatives (CCI), and advanced record abstraction. Upon completion, students should be able to perform advanced coding in a healthcare facility. SP					
OST 281	Emerging Issues in Med Ofc	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course provides a comprehensive discussion of topics familiar to the health care setting. Topics include emerging issues in the health care setting. Upon completion, students should be able to demonstrate an understanding of current medical office procedures and treatments. FA					
OST 286	Professional Development	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the personal competencies and qualities needed to project a professional image in the office. Topics include interpersonal skills, health lifestyles, appearance, attitude, personal and professional growth, multicultural awareness, and professional etiquette. Upon completion, students should be able to demonstrate these attributes in the classroom, office, and society. FA					
OST 288	Medical Office Admin Capstone	2	2	0	3
Prerequisites: OST 148 and OST 243					
Corequisites: None					
This course is designed to be a capstone course for the medical office professional and provides a working knowledge of medical office procedures. Emphasis is placed on written and oral communication skills, practice management, electronic health records, medical office procedures, ethics, and professional development. Upon completion, students should be able to demonstrate the skills necessary to manage a medical office. SP					
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. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA, SP					

PED 111	Physical Fitness I	0	3	0	1
Prerequisites: None					
Corequisites: None					
This course provides an individualized approach to physical fitness utilizing the five major components. Emphasis is placed on the scientific basis for setting up and engaging in personalized physical fitness programs. Upon completion, students should be able to set up and implement an individualized physical fitness program. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA, SP					
PED 113	Aerobics I	0	3	0	1
Prerequisites: None					
Corequisites: None					
This course introduces a program of cardiovascular fitness involving continuous, rhythmic exercise. Emphasis is placed on developing cardiovascular efficiency, strength, and flexibility and on safety precautions. Upon completion, students should be able to select and implement a rhythmic aerobic exercise program. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA, SP					
PED 121	Walk, Jog, Run	0	3	0	1
Prerequisites: None					
Corequisites: None					
This course covers the basic concepts involved in safely and effectively improving cardiovascular fitness. Emphasis is placed on walking, jogging, or running as a means of achieving fitness. Upon completion, students should be able to understand and appreciate the benefits derived from these activities. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
PED 122	Yoga I	0	2	0	1
Prerequisites: None					
Corequisites: None					
This course introduces the basic discipline of yoga. Topics include proper breathing, relaxation techniques, and correct body positions. Upon completion, students should be able to demonstrate the procedures of yoga. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
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. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					
PED 186	Dancing For Fitness	0	2	0	1
Prerequisites: None					
Corequisites: None					
This course is designed to develop movement and recreational dance skills, safety, fitness, coordination, and techniques used to teach various groups. Emphasis is placed on participation and practice with adapting dances for ages and ability levels. Upon completion, students should be able to demonstrate knowledge of fitness through social, folk, and square dance participation and instruction. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i>					

PED 219	Disc Golf	0	2	0	1
Prerequisites: None					
Corequisites: None					
This course introduces the fundamentals of disc golf. Emphasis is placed on basic throwing techniques, putting, distance driving, scoring, and single and doubles play. Upon completion, students should be able to perform the skills required in playing situations. <i>This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement.</i> FA, SP					
PHI 215	Philosophical Issues	3	0	0	3
Prerequisites: ENG 111					
Corequisites: None					
This course introduces fundamental issues in philosophy considering the views of classical and contemporary philosophers. Emphasis is placed on knowledge and belief, appearance and reality, determinism and free will, faith and reason, and justice and inequality. Upon completion, students should be able to identify, analyze, and officially evaluate the philosophical components of an issue. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i>					
PHI 230	Introduction to Logic	3	0	0	3
Prerequisites: ENG 111					
Corequisites: None					
This course introduces basic concepts and techniques for distinguishing between good and bad reasoning. Emphasis is placed on deduction, induction, validity, soundness, syllogisms, truth functions, predicate logic, analogical inference, common fallacies, and scientific methods. Upon completion, students should be able to analyze arguments, distinguish between deductive and inductive arguments, test validity, and appraise inductive reasoning. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i> FA					
PHI 240	Introduction to Ethics	3	0	0	3
Prerequisites: ENG 111					
Corequisites: None					
This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on moral theories such as consequentialism, deontology, and virtue ethics. Upon completion, students should be able to apply various ethical theories to moral issues such as abortion, capital punishment, poverty, war, terrorism, the treatment of animals, and issues arising from new technologies. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. This is a Universal General Education Transfer Component (UGETC) course.</i>					
PHY 110	Conceptual Physics	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or DMA 010, DMA 020, DMA 030, and DMA 040; or appropriate CPT scores					
Corequisites: None					
This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP					

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. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP					
PHY 151	College Physics I	3	2	0	4
Prerequisites: MAT 171					
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. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i> FA					
PHY 152	College Physics II	3	2	0	4
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. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i> SP					
PHY 251	General Physics I	3	3	0	4
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. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i> SP					
PHY 252	General Physics II	3	3	0	4
Prerequisites: MAT 272 and PHY 251					
Corequisites: None					
This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. <i>This course has been approved for transfer under the CAA as a general education course in Natural Science. This course has been approved for transfer under the ICAA as a general education course in Natural Science. This is a Universal General Education Transfer Component (UGETC) course.</i> FA					

POL 120	American Government	3	0	0	3
Prerequisites: ENG 080 and RED 080; or DRE 098; or appropriate CPT scores					
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 process. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course.</i> FA, SP					
POL 210	Comparative Government	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course provides a cross-national perspective on the government and politics of contemporary nations such as Great Britain, France, Germany, and Russia. Topics include each country's historical uniqueness, key institutions, attitudes and ideologies, patterns of interaction, and current political problems. Upon completion, students should be able to identify and compare various nations' governmental structures, processes, ideologies, and capacity to resolve major problems. This course is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.</i> FA, SP					
POL 220	International Relations	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.</i> SP					
PSY 150	General Psychology	3	0	0	3
Prerequisites: DRE 098; or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course.</i>					
PSY 241	Developmental Psychology	3	0	0	3
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. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.</i>					

PSY 281	Abnormal Psychology	3	0	0	3
Prerequisites: PSY 150					
Corequisites: None					
This course provides an examination of the various psychological disorders, as well as theoretical, clinical, and experimental perspectives of the study of psychopathology. Emphasis is placed on terminology, classification, etiology, assessment, and treatment of the major disorders. Upon completion, students should be able to distinguish between normal and abnormal behavior patterns as well as demonstrate knowledge of etiology, symptoms, and therapeutic techniques. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. SP</i>					
REL 110	World Religions	3	0	0	3
Prerequisites: ENG 080 and RED 080; or DRE 098; or appropriate CPT scores					
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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i>					
REL 211	Introduction to Old Testament	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course is a survey of the literature of the Hebrews with readings for the law, prophets, and other writings. Emphasis is placed on the use of literacy, 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. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA</i>					
REL 212	Introduction to New Testament	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA, SP</i>					
REL 221	Religion in America	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA, SP</i>					
RUS 111	Elementary Russian I	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
Corequisites: None					
This course introduces the fundamental elements of the Russian 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 Russian and to demonstrate cultural awareness. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. FA*

RUS 112 Elementary Russian II 3 0 0 3

Prerequisites: RUS 111

Corequisites: None

This course is a continuation of RUS 111 focusing on the fundamental elements of the Russian 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 Russian and to demonstrate further cultural awareness. This course is inherently global/diverse in content. *This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts. SP*

SAB 110 Substance Abuse Overview 3 0 0 3

Prerequisites: None

Corequisites: None

This course provides an overview of the core concepts in substance abuse and dependence. Topics include the history of drug use/abuse, effects on societal members, treatment of addiction, and preventive measures. Upon completion, students should be able to demonstrate knowledge of the etiology of drug abuse, addiction, prevention, and treatment. FA

SAB 130 Addictive Behaviors 3 0 0 3

Prerequisites: None

Corequisites: None

This course surveys and investigates addiction patterns and various methods of treatment. Emphasis is placed on sociocultural, psychological, and physiological theories of substance abuse and treatment. Upon completion, students should be able to demonstrate an understanding of theories of substance abuse and treatment. FA

SAB 135 Addictive Process 3 0 0 3

Prerequisites: None

Corequisites: None

This course explores the physical, emotional, psychological, and cultural aspects of the addictive process. Emphasis is placed on addictions to food, sex, alcohol, drugs, work, gambling, and relationships. Upon completion, students should be able to identify the effects, prevention strategies, and treatment methods associated with addictive disorders. FA

SEC 110 Security Concepts 2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces the concepts and issues related to securing information systems and the development of policies to implement information security controls. Topics include the historical view of networking and security, security issues, trends, security resources, and the role of policy, people, and processes in information security. Upon completion, students should be able to identify information security risks, create an information security policy, and identify processes to implement and enforce policy. SP

SGD 111 Introduction to SGD 2 3 0 3

Prerequisites: None

Corequisites: None

This course provides students with an introduction to simulation and game development. Topics include setting, storytelling, narrative, character design, interface design, game play, internal economy, core mechanics, game genres, AI, the psychology of game design and professionalism. Upon completion, students should be able to demonstrate knowledge of the major aspects of simulation and game design and development. FA

SGD 112	SGD Design	2	3	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the fundamentals of simulation and game design. Topics include industry standards and design elements for simulations and games. Upon completion, students should be able to design simple simulations and/or games. SP					
SOC 210	Introduction to Sociology	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences. This is a Universal General Education Transfer Component (UGETC) course.</i>					
SOC 213	Sociology of the Family	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.</i> SP					
SOC 220	Social Problems	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.</i>					
SOC 225	Social Diversity	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
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. <i>This course has been approved for transfer under the CAA as a general education course in Social/Behavioral Sciences. This course has been approved for transfer under the ICAA as a general education course in Social/Behavioral Sciences.</i> FA, SP					
SON 110	Introduction to Sonography	1	3	3	3
Prerequisites: Enrollment in the Medical or Cardiovascular Sonography program					
Corequisites: None					
This course provides an introduction to medical sonography. Topics include applications, sonographic terminology, history, patient care, ethics, and basic skills. Upon completion, students should be able to define professionalism and sonographic applications and perform basic patient care skills and preliminary scanning techniques. SU					

SON 111	Sonographic Physics	3	3	0	4
Prerequisites: Enrollment in Medical, Cardiovascular Sonography or Musculoskeletal Sonography program or graduate of accredited Medical Sonography program					
Corequisites: None					
This course introduces ultrasound physical principles, bioeffects, and sonographic instrumentation. Topics include sound wave mechanics, transducers, sonographic equipment, Doppler physics, bioeffects, and safety. Upon completion, students should be able to demonstrate knowledge of sound wave mechanics, transducers, sonography equipment, the Doppler effect, bioeffects, and safety. FA					
SON 111AB	Sonographic Physics (part one)	2	3	0	3
SON 111BB	Sonographic Physics (part two)	1	0	0	1
SON 120	SON Clinical Education I	0	0	15	5
Prerequisites: SON 110, Enrollment in the Medical Sonography program					
Corequisites: None					
This course provides active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations. FA					
SON 121	SON Clinical Education II	0	0	15	5
Prerequisites: SON 120, Enrollment in the Medical Sonography program					
Corequisites: None					
This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations. SP					
SON 130	Abdominal Sonography I	2	3	0	3
Prerequisites: Enrollment in the Medical Sonography program					
Corequisites: None					
This course introduces abdominal and small parts sonography. Emphasis is placed on the sonographic anatomy of the abdomen and small parts with correlated laboratory exercises. Upon completion, students should be able to recognize and acquire basic abdominal and small parts images. FA					
SON 131	Abdominal Sonography II	1	3	0	2
Prerequisites: SON 130, Enrollment in the Medical Sonography program					
Corequisites: None					
This course covers abdominal and small parts pathology recognizable on sonograms. Emphasis is placed on abnormal sonograms of the abdomen and small parts with correlated sonographic cases. Upon completion, students should be able to recognize abnormal pathological processes in the abdomen and on small parts sonographic examinations. SP					
SON 140	Gynecological Sonography	2	0	0	2
Prerequisites: SON 110, Enrollment in the Medical Sonography program					
Corequisites: None					
This course is designed to relate gynecological anatomy and pathology to sonography. Emphasis is placed on gynecological relational anatomy, endovaginal anatomy, and gynecological pathology. Upon completion, students should be able to recognize normal and abnormal gynecological sonograms. FA					
SON 220	SON Clinical Education III	0	0	24	8
Prerequisites: SON 121, Enrollment in the Medical Sonography program					
Corequisites: None					
This course provides continued active participation in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations. FA					
SON 220AB	SON Clinical Education III (part one)	0	0	6	2
SON 220BB	SON Clinical Education III (part two)	0	0	18	6

SON 221 SON Clinical Education IV 0 0 24 8

Prerequisites: SON 220, Enrollment in the Medical Sonography program

Corequisites: None

This course provides continued active participation off campus in clinical sonography. Emphasis is placed on imaging, processing, and technically evaluating sonographic examinations. Upon completion, students should be able to image, process, and evaluate sonographic examinations. SP

SON 225 Case Studies 0 3 0 1

Prerequisites: SON 110 or CVS 163, Enrollment in the Medical Sonography program

Corequisites: None

This course offers the opportunity to present interesting cases found during clinical education. Emphasis is placed on presentation methods which integrate patient history, laboratory results, and sonographic findings with reference to current literature. Upon completion, students should be able to correlate information necessary for complete presentation of case studies. FA

SON 241 Obstetrical Sonography I 2 0 0 2

Prerequisites: SON 110, Enrollment in the Medical Sonography program

Corequisites: None

This course covers normal obstetrical sonography techniques, the normal fetal environment, and abnormal first trimester pregnancy states. Topics include gestational dating, fetal anatomy, uterine environment, and first trimester complications. Upon completion, students should be able to produce gestational sonograms which document age, evaluate the uterine environment, and recognize first trimester complications. SP

SON 242 Obstetrical Sonography II 2 0 0 2

Prerequisites: SON 241, Enrollment in the Medical Sonography program

Corequisites: None

This course covers second and third trimester obstetrical complications and fetal anomalies. Topics include abnormal fetal anatomy and physiology and complications in the uterine environment. Upon completion, students should be able to identify fetal anomalies, fetal distress states, and uterine pathologies. FA

SON 250 Vascular Sonography 1 3 0 2

Prerequisites: Enrollment in the Medical Sonography or Cardiovascular Sonography program or graduate of accredited Medical Sonography program

Corequisites: None

This course provides an in-depth study of the anatomy and pathology of the vascular system. Topics include peripheral arterial, peripheral venous, and cerebrovascular disease testing. Upon completion, students should be able to identify normal vascular anatomy and recognize pathology of the vascular system. SP

SON 272 Advanced Pathology 0 3 0 1

Prerequisites: SON 110, Enrollment in the Medical Sonography program

Corequisites: None

This course is designed to concentrate on complex pathological states seen on sonograms. Emphasis is placed on systemic diseases and multi-organ disease states as seen on sonograms. Upon completion, students should be able to research, present, and discuss system diseases presented on sonograms. SP.

SON 276 Fetal Echocardiography 1 0 0 1

Prerequisites: Enrollment in the Medical Sonography or Cardiovascular Sonography program or graduate of accredited Medical Sonography program

Corequisites: None

This course introduces the normal and abnormal development of the fetal heart with correlation to sonographic evaluation. Emphasis is placed on cardiac anatomy and physiology in the normal fetus as well as cardiac defects. Upon completion, students should be able to identify and evaluate normal and abnormal fetal cardiac structures. FA

SON 289	Sonographic Topics	2	0	0	2
Prerequisites: SON 110, Enrollment in the Medical Sonography program					
Corequisites: None					
This course provides an overview of sonographic topics in preparation for certification examinations. Emphasis is placed on registry preparation. Upon completion, students should be able to demonstrate a comprehensive knowledge of sonography and be prepared for the registry examinations. SP					
SPA 111	Elementary Spanish I	3	0	0	3
Prerequisites: DRE 098 or DRE 099; or appropriate CPT scores					
Corequisites: None					
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 is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i>					
SPA 112	Elementary Spanish II	3	0	0	3
Prerequisites: SPA 111					
Corequisites: None					
This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. This course is inherently global/diverse in content. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i>					
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. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i> FA					
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. <i>This course has been approved for transfer under the CAA as a general education course in Humanities/Fine Arts. This course has been approved for transfer under the ICAA as a general education course in Humanities/Fine Arts.</i> SP					
SWK 113	Working with Diversity	3	0	0	3
Prerequisites: None					
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. SP					

TRN 110	Introduction to Transport Tech	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers workplace safety, hazardous materials, environmental regulations, hand tools, service information, basic concepts, vehicle systems, and common transportation industry terminology. Topics include familiarization with major vehicle systems, proper use of various hand and power tools, material safety data sheets, and personal protective equipment. Upon completion, students should be able to demonstrate appropriate safety procedures, identify and use basic shop tools, and describe government regulations regarding transportation repair facilities. FA					
TRN 120	Basic Transportation Electricity	4	3	0	5
Prerequisites: None					
Corequisites: None					
This course covers basic electrical theory, wiring diagrams, test equipment, and diagnosis, repair and replacement of batteries, starters, and alternators. Topics include Ohm's Law, circuit construction, wiring diagrams, circuit testing, and basic troubleshooting. Upon completion, students should be able to properly use wiring diagrams, diagnose, test, and repair basic wiring, battery, starting, charging, and electrical concerns. SP					
TRN 140	Transportation Climate Control	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers the theory of refrigeration and heating, electrical/electronic/pneumatic controls, and diagnosis and repair of climate control systems. Topics include diagnosis and repair of climate control components and systems, recovery/recycling of refrigerants, and safety and environmental regulations. Upon completion, students should be able to diagnose and repair vehicle climate control systems. SP					
TRN 145	Adv Transp Electronics	2	3	0	3
Prerequisites: TRN 120					
Corequisites: None					
This course covers advanced transportation electronic systems including programmable logic controllers, on-board data networks, telematics, high voltage systems, navigation, collision avoidance systems and electronic accessories. Topics include interpretation of wiring schematics, reprogramming PLCs, diagnosing and testing data networks and other electronic concerns. Upon completion, students should be able to reprogram PLCs, diagnose and test data networks and other electronic concerns, and work safely with high voltage systems. SP					
TRN 180	Basic Welding for Transportation	1	4	0	3
Prerequisites: None					
Corequisites: None					
This course covers the terms and procedures for welding various metals used in the transportation industry with an emphasis on personal safety and environmental health. Topics include safety and precautionary measures, setup/operation of MIG equipment, metal identification methods, types of welds/joints, techniques, inspection methods, cutting processes and other related issues. Upon completion, students should be able to demonstrate a basic knowledge of welding operations and safety procedures according to industry standard. SP					
WBL 110	World of Work	1	0	0	1
Prerequisites: Enrollment in a curriculum program					
Corequisites: None					
This course covers basic knowledge necessary for gaining and maintaining employment. Topics include job search skills, work ethic, meeting employer expectations, workplace safety, and human relations. Upon completion, students should be able to successfully make the transition from school to work. FA, SP					

WBL 111	Work-Based Learning I	0	0	10	1
Prerequisites: Enrollment in a curriculum program					
Corequisites: None					
This course provides a work-based learning 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. FA, SP					
WBL 112	Work-Based Learning I	0	0	20	2
Prerequisites: Enrollment in a curriculum program					
Corequisites: None					
This course provides a work-based learning 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. FA, SP					
WBL 115	Work-Based Learning Seminar I	1	0	0	1
Prerequisites: None					
Corequisites: WBL 111					
This seminar is designed to discuss the student's work experience with the instructor and other students. Students will discuss highlights, issues, and problems associated with their work-based learning experience. FA, SP					
WBL 121	Work-Based Learning II	0	0	10	1
Prerequisites: Enrollment in a curriculum program					
Corequisites: None					
This course provides work-based learning 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. FA, SP					
WBL 125	Work-Based Learning Seminar II	1	0	0	1
Prerequisites: None					
Corequisites: WBL 121					
This seminar is designed to discuss the student's work experience with the instructor and other students. Students will discuss highlights, issues, and problems associated with their work-based learning experience. FA, SP					
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. FA, SP					
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, student should be able to create internet multimedia presentations utilizing a variety of methods and applications. FA					
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. FA					

WEB 210	Web Design	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces intermediate to advanced web design techniques. Topics include customer expectations, advanced markup language, multimedia technologies, usability and accessibility practices, and techniques for the evaluation of web design. Upon completion, students should be able to employ advanced design techniques to create high impact and highly functional web sites. SP					
WEB 214	Social Media	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces students to social media for organizations. Topics include social media, marketing strategy, brand presence, blogging, social media analytics and technical writing. Upon completion, students should be able to utilize popular social media platforms as part of a marketing strategy, and work with social media analytics tools. SP					
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. FA					
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. SP					
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. FA					
WLD 116	SMAW (Stick) Plate/Pipe	1	9	0	4
Prerequisites: WLD 115					
Corequisites: None					
This course is designed to enhance skills with the shielded metal arc (stick) welding process. Emphasis is placed on advancing manipulative skills with SMAW electrodes on varying joint geometry. Upon completion, students should be able to perform groove welds on carbon steel with prescribed electrodes in the flat, horizontal, vertical, and overhead positions. SP					
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. FA					

WLD 122	GMAW (MIG) Plate Pipe	1	6	0	3
Prerequisites: WLD 121					
Corequisites: None					
This course is designed to enhance skills with the gas metal arc (MIG) welding process. Emphasis is placed on advancing skills with the GMAW process making groove welds on carbon steel plate and pipe in various positions. Upon completion, students should be able to perform groove welds with prescribed electrodes on various joint geometry. SP					
WLD 131	GTAW (TIG) Plate	2	6	0	4
Prerequisites: None					
Corequisites: None					
This course introduces the gas tungsten arc (TIC) 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. FA					
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. SP					
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. FA					
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. SP					
WLD 212	Inert Gas Welding	1	3	0	2
Prerequisites: None					
Corequisites: None					
This course introduces inert gas-shielded welding methods (MIG/TIG). Topics include correct selection of consumable and non-consumable electrodes, equipment setup, safety, and welding techniques. Upon completion, students should be able to perform inert gas welding in flat, horizontal, and overhead positions. SP					
WLD 261	Certification Practices	1	3	0	2
Prerequisites: WLD 115, WLD 121, and WLD 131					
Corequisites: None					
This course covers certification requirements for industrial welding processes. Topics include techniques and certification requirements for prequalified joint geometry. Upon completion, students should be able to perform welds on carbon steel plate and/or pipe according to applicable codes. SU					

