

COURSE DESCRIPTIONS

The courses listed on the following pages represent current curriculum offerings.

- The courses are listed in alphabetic order by a 3-letter prefix (BUS for Business, HIS for History).
- The courses are assigned a 3-digit number (ACC 120).
- Any course number less than 100 level will not earn credit hours toward graduation (ENG 002).
- The course title follows the course number (ACC 120 Principles of Financial Accounting).
- The number of contact and credit hours follows the title (ACC 120 Principles of Financial Accounting 3 2 0 4). The first number represents the number of class hours per week in a 16 week semester; the second number represents the number of lab hours per week; the third number represents the number of clinical or work experience hours per week; the last number represents the number of semester credit hours assigned to the course.
- Prerequisites mean preliminary skills, knowledge, or other courses are required before enrollment in the course.
- Corequisites mean courses that must be taken during the same term as the course that requires the corequisites.
- Courses marked "FA" are generally offered in the fall semester. Courses marked "SP" are generally offered in the spring semester. Courses marked "SU" may be offered in the summer term.

ACA 122 College Transfer Success

0 2 0 1

Prerequisites: None

Corequisites: None

This course provides information and strategies necessary to develop clear academic and professional goals beyond the community college experience. Topics include the CAA, college policies and culture, career exploration, gathering information on senior institutions, strategic planning, critical thinking, and communications skills for a successful academic transition. Upon completion, students should be able to develop an academic plan to transition successfully to senior institutions. Students will develop the framework for an electronic portfolio based around program outcomes and the core skills. *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

ACC 120 Principles of Financial Accounting

3 2 0 4

Prerequisites: None

Corequisites: None

This course introduces business decision-making accounting information systems. Emphasis is placed on analyzing, summarizing, reporting, and interpreting financial information. Upon completion, students should be able to prepare financial statements, understand the role of financial information in decision-making and address ethical considerations. *This course has been approved 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

ACC 121 Principles of Managerial Accounting

3 2 0 4

Prerequisites: ACC 120

Corequisites: None

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

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	3	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	3	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				
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. Students may receive credit for this course by successfully completing non-credit course AHR 3123B. 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. Students may receive credit for this course by successfully completing non-credit course AHR 3131C. 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. Students may receive credit for this course by successfully completing non-credit course AHR-3131A. 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. Students may receive credit for this course by successfully completing non-credit course AHR 3131B. 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. Students may receive credit for this course by successfully completing non-credit course AHR 3131J. FA				
AHR 130 HVACR Controls	2	2	0	3
Prerequisites: AHR 111, ELC 111, or ELC 112				
Corequisites: None				
This course covers the types of controls found in residential and commercial comfort systems. Topics include electrical and electronic controls, control schematics and diagrams, test instruments, and analysis and troubleshooting of electrical systems. Upon completion, students should be able to diagnose and repair common residential and commercial comfort system controls. 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 151 HVAC Duct Systems I	1	3	0	2
Prerequisites: None				
Corequisites: None				
This course introduces the techniques used to lay out and fabricate duct work commonly found in HVAC systems. Emphasis is placed on the skills required to fabricate duct work. Upon completion, students should be able to lay out and fabricate simple duct work. FA				

AHR 152 HVAC Duct Systems II	1	3	0	2
Prerequisites: None				
Corequisites: None				
This course introduces the techniques used to lay out and fabricate more advanced types of duct work found in HVAC systems. Emphasis is placed on the skills required to work with complex rectangular and round fittings and transitions. Upon completion, students should be able to lay out and fabricate complex rectangular and round fittings. SP				
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. Students may receive credit for this course by successfully completing non-credit course AHR 3131G. 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. Students may receive credit for this course by successfully completing non-credit course AHR 3131K 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					
ART 111	Art Appreciation	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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: DRE 098 or ENG 002					
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. <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					
ART 115	Art History Survey II	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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. <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					
ART 116	Survey of American Art	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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
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Prerequisites: DRE 098 or ENG 002

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
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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
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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. *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

ART 131	Drawing I	0	6	0	3
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Prerequisites: None

Corequisites: None

This course introduces the language of drawing and the use of various drawing materials. Emphasis is placed on drawing techniques, media and graphic principles. Upon completion, students should be able to demonstrate competence in the use of graphic form and various drawing processes. *This course has been approved for transfer under the 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.*

ART 132	Drawing II	0	6	0	3
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Prerequisites: ART 131 Minimum grade C

Corequisites: None

This This course continues instruction in the language of drawing and the use of various materials. Emphasis is placed on experimentation in the use of drawing techniques, media, and graphic materials. Upon completion, students should be able to demonstrate increased competence in the expressive use of graphic form and techniques. *This course has been approved for transfer under the 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.*

ART 171	Digital Design I	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course is designed to introduce students to the elements and principles of design through the use of digital software. Emphasis is placed on developing composition and design skills using vector, raster, and time-based media. Upon completion, students should be able to identify and use tools in digital software, understand and utilize digital and artistic vocabulary, and employ the principles and elements of design to create artwork using digital means. <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: ACA 122 and 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. SP</i>					
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. FA</i>					
ART 241	Painting II	0	6	0	3
Prerequisites: ART 240 Minimum grade C					
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 Minimum grade C					
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. *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.*

ART 271	Digital Design II	0	6	0	3
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Prerequisites: ART 171 Minimum grade C

Corequisites: None

This course includes advanced digital techniques in raster, vector, and time based media. Emphasis is based on creative application and integration of digital technologies. Upon completion, students should be able to demonstrate command of various digital systems to express their personal vision. *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.*

ART 275	Introduction to Graphic Design	0	6	0	3
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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. *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 276	Interactive Media Technology	0	6	0	3
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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 design, simple animation, graphics and copyright issues. Upon completion, students should be able to use contemporary software to solve a variety of multimedia problems for a range of platforms and devices that may include web-based interaction, mobile devices or other emerging technology. *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*

ART 281	Sculpture I	0	6	0	3
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Prerequisites: None

Corequisites: None

This course provides an exploration of the creative and technical methods of sculpture with focus on the traditional processes. Emphasis is placed on developing basic skills as they pertain to three-dimensional expression in various media. Upon completion, students should be able to show competence in a variety of sculptural approaches. *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*

ART 282	Sculpture II	0	6	0	3
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Prerequisites: ART 281

Corequisites: None

This course builds on the visual and technical skills learned in ART 281. Emphasis is placed on developing original solutions to sculptural problems in a variety of media. Upon completion, students should be able to express individual ideas using the techniques and materials of sculpture. *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*

ART 283	Ceramics I	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course provides an introduction to three-dimensional design principles using the medium of clay. Emphasis is placed on fundamentals of forming, surface design, glaze application, and firing. Upon completion, students should be able to demonstrate skills in slab and coil construction, simple wheel forms, glaze technique, and creative expression. <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 284	Ceramics II	0	6	0	3
Prerequisites: ART 283 Minimum grade C					
Corequisites: None					
This course covers advanced hand building and wheel techniques. Emphasis is placed on creative expression, surface design, sculptural quality, and glaze effect. Upon completion, students should be able to demonstrate a high level of technical competence in forming and glazing with a development of three-dimensional awareness. <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 288	Studio	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course provides the opportunity for advanced self-determined work beyond the limits of regular studio course sequences. Emphasis is placed on creative self-expression and in-depth exploration of techniques and materials. Upon completion, students should be able to create original projects specific to media, materials, and techniques. <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>					
ASL 111	Elementary ASL I	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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. <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					
ASL 112	Elementary ASL II	3	0	0	3
Prerequisites: ASL 111 Minimum grade C					
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. <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					
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
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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
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Prerequisites: MAT 060 and MAT 070 or
DMA 010, DMA 020, DMA 030 or
DMA 010, DMA 020, DMA 030 or
DMA 025 or
MAT 003

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
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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. *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 151	General Astronomy I	3	0	0	3
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Prerequisites: MAT 060 and MAT 070 or
DMA 010, DMA 020, DMA 030, DMA 040 or
DMA 010, DMA 020, DMA 030, DMA 045 or
DMA 025, DMA 040 or
DMA 025, DMA 045 or
MAT 003 or
MAT 010 or
MAT 021 or
MAT 043 or
MAT 052 or
MAT 071

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. *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 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. *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.*

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

ATT 140 Emerging Transp Tech 2 3 0 3

Prerequisites: None
Corequisites: None

This course covers emerging technologies in the automotive industry and diagnostic procedures associated with those technologies. Topics include exploring new technologies, diagnostic tools, methods, and repairs. Upon completion, students should be able to demonstrate practical skills applicable to emerging automotive technologies. SP

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. Students may receive credit for this course by successfully completing non-credit course AUT 3109AC. FA, SU

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. Students may receive credit for this course by successfully completing non-credit course AUT 3109C. FA, SU

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. Students may receive credit for this course by successfully completing non-credit course AUT 3109U. SP, SU

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. Students may receive credit for this course by successfully completing non-credit course AUT 3137A SP

AUT 116A Engine Repair Lab 0 3 0 1

Prerequisites: None
Corequisites: AUT 116

This course is an optional lab to be used as an alternative to co-op placement in meeting the NATEF standards for total hours. Topics include diagnosis, inspection, adjustment, and repair of automotive engines using appropriate service information. Upon completion, students should be able to perform basic diagnosis, measurement and repair of automotive engines using appropriate tools, equipment, procedures, and service information. Students may receive credit for this course by successfully completing non-credit course AUT 3137F. 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. Students may receive credit for this course by successfully completing non-credit course AHR 3137C. 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. Students may receive credit for this course by successfully completing non-credit course AUT 3137D.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: MAT 060 and MAT 070 or DMA 010, DMA 020, DMA 030 or DMA 025 or MAT 003					
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: MAT 060 and MAT 070 or DMA 010, DMA 020, DMA 030 or DMA 025 or MAT 003					
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 Minimum Grade C					
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: MAT 060 and MAT 070 or DMA 010, DMA 020, DMA 030 or DMA 025 or MAT 003					
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: MAT 060 and MAT 070 or DMA 010, DMA 020, DMA 030 or DMA 025 or MAT 003					
Corequisites: None					
This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition,					

acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. *This course 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.*

BIO 168 Anatomy and Physiology I 3 3 0 4

Prerequisites: MAT 060 and MAT 070 or DMA 010, DMA 020, DMA 030 or DMA 025 or MAT 003

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 Minimum Grade C
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. *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 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 Minimum grade C
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 Minimum grade C
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 115 Elc/Fluid Power Diagrams 1 2 0 2

Prerequisites: None
Corequisites: None

This course covers sketching of detail and assembly drawings and reading of hydraulic, pneumatic, electrical, mechanical, and piping schematics. Emphasis is placed on interpretation and communication skills utilizing sketches, symbols, diagrams, and other related topics. Upon completion, students should be able to read, demonstrate an understanding of, and draw sketches and schematics commonly used in industry. 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.* FA, SP

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. *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 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. Students may receive credit for this course by successfully completing non-credit course CCT 3110A. 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. Students may receive credit for this course by successfully completing non-credit course CJC 5001A. 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 250	Network Vulnerabilities I	2	2	0	3
Prerequisites: CTI 120 or NET 110					
Corequisites: None					
This course introduces students to penetration testing, network vulnerabilities, and hacking. Topics include an overview of traditional network security, system hardening, and known weaknesses. Upon completion, students should be able to evaluate weaknesses of traditional and wireless network for the purpose of incident response, reconstruction, and forensic investigation. SP					
CCT 260	Mobile Phone Examination	1	4	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the unique skills and methodologies necessary to assist in the investigation and prosecution of cyber crimes involving mobile phones. Topics include the basics of the cellular networks					

as well as data extraction from GSM, iDEN, and CDMA handsets. Upon completion, students should be able to use the course processes and methodologies to obtain forensic evidence from GSM, iDEN and CDMA handsets. SP

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 ENG 002

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. *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*

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. *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*

CHM 131 Introduction to Chemistry 3 0 0 3

Prerequisites: MAT 060 and MAT 070 or

DMA 010, DMA 020, DMA 030 or

DMA 025 or

MAT 003

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: MAT 060 and MAT 070 or

DMA 010, DMA 020, DMA 030, DMA 040 or

DMA 010, DMA 020, DMA 030, DMA 045 or

DMA 025, DMA 040 or

DMA 025, DMA 045 or

MAT 003 or

MAT 010 or

MAT 021 or

MAT 043 or

MAT 052 or

MAT 071

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 Minimum grade C

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 Minimum grade C

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 Minimum grade C

Corequisites: None

This course provides continuation of the systematic study of the theories, principles, and techniques of organic chemistry. Topics include nomenclature, structure, properties, reactions, and mechanisms of aromatics, aldehydes, ketones, carboxylic acids and derivatives, amines and heterocyclics; multi-step synthesis will be emphasized. Upon completion, students should be able to demonstrate an understanding of organic concepts as needed to pursue further study in chemistry and related professional fields. *This course has been approved 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

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. *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).* FA, SP, SU

CIS 115 Introduction to Programming & Logic 2 3 0 3

Prerequisites: DMA 010, DMA 020, DMA 030 and DMA 040 or
DMA 025, DMA 040
MAT 121 or
MAT 171 or
MAT 003

Corequisites: None

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

algorithm design, and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language. *This course has been approved 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).* FA, SP

CIS 164 DTP Layout & Design 2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces the fundamentals of design and page layout. Emphasis is placed on page layout organization, typography, and color. Upon completion, students should be able to create projects that visually enhance communication. FA

CJC 110 Basic Law Enforcement Training 10 30 0 20

Prerequisites: Enrollment in Basic Law Enforcement Training Program

Corequisites: None

This course covers the basic skills and knowledge needed for entry-level employment as a law enforcement officer in North Carolina. Topics are divided into general units of study: legal, patrol duties, law enforcement communications, 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. *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

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. *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

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 212	Ethics & Community Relations	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers ethical considerations and accepted standards applicable to criminal justice organizations and professionals. Topics include ethical systems; social change, values, and norms; cultural diversity; citizen involvement in criminal justice issues; and other related topics. Upon completion, students should be able to apply ethical considerations to the decision-making process in identifiable criminal justice situations. SP					
CJC 214	Victimology	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces the study of victims. Emphasis is placed on roles/characteristics of victims, victim interaction with the criminal justice system and society, current victim assistance programs, and other related topics. Upon completion, students should be able to discuss and identify victims, the uniqueness of victims' roles, and current victim assistance programs. 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: None					
Corequisites: None					
This course covers the functions of the forensic laboratory and its relationship to successful criminal investigations and prosecutions. Topics include advanced crime scene processing, investigative techniques, current forensic technologies, and other related topics. Upon completion, students should be able to identify and collect relevant evidence at simulated crime scenes and request appropriate laboratory analysis of submitted evidence. SP					
CJC 223	Organized Crime	3	0	0	3
Prerequisites: None					
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 225	Crisis Intervention	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course introduces critical incident intervention and management techniques as they apply to operational criminal justice practitioners. Emphasis is placed on the victim/offender situation as well as job-related high stress, dangerous, or problem-solving citizen contacts. Upon completion, students should be able to provide insightful analysis of emotional, violent, drug-induced, and other critical and/or stressful incidents that require field analysis and/or resolution. FA					
CJC 231	Constitutional Law	3	0	0	3
Prerequisites: None					
Corequisites: None					
The course covers the impact of the Constitution of the United States and its amendments on the criminal justice system. Topics include the structure of the Constitution and its amendments, court decisions pertinent to contemporary criminal justice issues, and other related topics. Upon completion, students should be able to identify/discuss the basic structure of the United States Constitution and the rights/procedures as interpreted by the courts. SP					
CJC 232	Civil Liability	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers liability issues for the criminal justice professional. Topics include civil rights violations, tort liability, employment issues, and other related topics. Upon completion, students should be able to explain civil trial procedures and discuss contemporary liability issues. SP					
COM 110	Introduction to Communication	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
Corequisites: None					
This course provides an overview of the basic concepts of communication and the skills necessary to communicate in various contexts. Emphasis is placed on communication theories and techniques used in interpersonal group, public, intercultural, and mass communication situations. Upon completion, students should be able to explain and illustrate the forms and purposes of human communication in a variety of contexts. This course is inherently global/diverse in nature. <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. This is a Universal General Education Transfer Component (UGETC) course.</i>					

COM 120 Introduction to Interpersonal Communication 3 0 0 3

Prerequisites: DRE 098 or ENG 002

Corequisites: None

This course introduces the practices and principles of interpersonal communication in both dyadic and group settings. Emphasis is placed on the communication process, perception, listening, self-disclosure, speech apprehension, ethics, nonverbal communication, conflict, power, and dysfunctional communication relationships. Upon completion, students should be able to demonstrate interpersonal communication skills, apply basic principles of group discussion, and manage conflict in interpersonal communication situations. *This course has been approved 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.* FA, SP

COM 140 Introduction to Intercultural Communication 3 0 0 3

Prerequisites: DRE 098 or ENG 002

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 ENG 002

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 118 Swift Programming 2 3 0 3

Prerequisites: None

Corequisites: None

This course introduces the development of iOS applications and Apple applications using Swift programming language. Emphasis is placed on syntax, object-oriented principles, memory management, and functional concepts of Swift programming. Upon completion, students should be able to develop fully functional iOS and Apple applications using Swift programming language. Students may receive credit for this course by successfully completing non-credit course CSC 3118A. SP

CSC 121 Python Programming 2 3 0 3

Prerequisites: None

Corequisites: None

This course introduces computer programming using the Python programming language. Emphasis is placed on common algorithms and programming principles utilizing the standard library distributed with Python. Upon completion, students should be able to design, code, test, and debug Python language programs. SP

CSC 134 C++ Programming 2 3 0 3

Prerequisites: None

Corequisites: None

This course introduces computer programming using the C++ programming language with object-oriented programming principles. Emphasis is placed on event-driven programming methods,

including creating and manipulating objects, classes, and using object-oriented tools such as the class debugger. Upon completion, students should be able to design, code, test and debug at a beginning level. *This course has been approved for transfer under the 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.* Students may receive credit for this course by successfully completing non-credit course CSC 3110M. SP

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

CSC 218 Swift Programming II 2 3 0 3

Prerequisites: CSC 118

Corequisites: None

This course introduces advanced iOS application development using the Swift programming language. Emphasis is placed on navigation, data manipulation, web services, prototyping, debugging, and project planning. Upon completion, students should be able to develop advanced multifunctional iOS and Apple applications using the Swift programming language. Students may receive credit for this course by successfully completing non-credit course CSC 3218A. SP

CSC 221 Advanced Python Programming 2 2 0 3

Prerequisites: CSC 121

Corequisites: None

This course introduces advanced computer programming using the Python programming language. Emphasis is placed on the advanced programming concepts including advanced algorithms and programming principles utilizing standard and third party library tools. Upon completion, students should be able to design, code, test, and debug advanced Python language programs. 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 115 Computer Systems Foundation 2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces the basic hardware components of a personal computer workstation and their operations and interactions with software. Topics include installing and updating system software, application software programs, and device drivers. Upon completion, students should be able to set up a workstation, install software, and establish network connectivity. Students may receive credit for this course by successfully completing non-credit course CET 3100C. 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. Students may receive credit for this course by successfully completing non-credit course NET 3100A. 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. Students may receive credit for this course by successfully completing non-credit course CET 3100B. 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 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

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

DFT 170 Engineering Graphics 2 2 0 3

Prerequisites: None

Corequisites: None

This course introduces basic engineering graphics skills and applications. Topics include sketching, selection and use of current methods and tools, and the use of engineering graphics applications. Upon completion, students should be able to demonstrate an understanding of basic engineering graphics principles and practices. *This course has been approved for transfer under the 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

DME 110	Intro to Digital Media	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces students to key concepts, technologies, and issues related to digital media. Topics include emerging standards, key technologies and related design issues, terminology, media formats, career paths, and ethical issues. Upon completion, students should be able to demonstrate the various media formats that are used in digital media technology. Students may receive credit for this course by successfully completing non-credit course SGR 3100D. FA					
DME 115	Graphic Design Tools	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course provides students with an introduction to creative expression and art/design techniques in a digital environment. Emphasis is placed on designing, creating, editing and integrating visual components consisting of bit-mapped and vector-based images, drawings, banners, text, simple animations, and multiple layers. Upon completion, students should be able to design and produce a range of visual products using digital processing techniques. Students may receive credit for this course by successfully completing non-credit course SGR 3100E. FA					
DME 120	Intro to Multimedia Appl	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course introduces storyboarding and multimedia application design. Topics include vector and bit-mapped graphics, interactive multimedia interfaces, layering techniques, image and animation libraries, and scripting. Upon completion, students should be able to produce basic high-quality interactive multimedia applications. Students may receive credit for this course by successfully completing non-credit course SGR 3100F. SP					
DME 130	Digital Animation I	2	2	0	3
Prerequisites: DME 110					
Corequisites: None					
This course introduces concepts for planning and developing animation sequences. Emphasis will be placed on review of digital animation concepts and exploration of various animation software packages. Upon completion, students should be able to produce simple animations. FA					
DME 140	Intro to Audio/Video Media	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course is designed to teach students how to manipulate digital and audio content for multimedia applications. Topics include format conversion and a review of current technologies and digital formats. Upon completion, students should be able to modify existing audio and video content to meet a range of production requirements associated with digital media applications. SP					
DME 210	User Interface Design	2	2	0	3
Prerequisites: None					
Corequisites: None					
This course covers current design approaches and emerging standards related to the design and development of user interfaces. Emphasis is placed on conducting research, and analyzing and reviewing current practices in effective interface design. Upon completion, students should be able to intelligently discuss and evaluate new and existing digital media products in terms of the user interface. FA					
DME 215	Adv Graphic Design Tools	2	2	0	3
Prerequisites: DME 115					
Corequisites: None					
This course provides students with advanced design techniques in a digital environment. Emphasis is placed on understanding principles of design and typography, and applying them effectively in projects. Upon completion, students should be able to design and produce a range of visual products using advanced digital design techniques and principles. FA					

DME 220	Interactive Multimedia Prog	2	2	0	3
Prerequisites: DME 120					
Corequisites: None					
This course is designed to build on concepts developed in DME 120 and teaches students to apply custom programming to develop advanced applications and components. Emphasis is placed on scripting language functionalities associated with a variety of software packages. Upon completion, students should be able to produce advanced, high-quality interactive multimedia applications. FA					
DME 270	Prof Pract Digital Media	2	2	0	3
Prerequisites: DME 120 and DME 130					
Corequisites: None					
This course introduces students to business skills needed to succeed in the digital media workplace. Topics include portfolio development, resume design, and preparation of media contacts. Upon completion, students should be able to prepare themselves and their work for a career in the digital media workplace. SP					
DME 285	Systems Project	2	2	0	3
Prerequisites: DME 120 and DME 130					
Corequisites: None					
This course provides an opportunity to complete a significant digital media project from the design phase through implementation with minimal instructor support. Emphasis is placed on project definition, testing, presentation, and implementation. Upon completion, students should be able to complete, maintain and implement a digital media project. SP					
DRA 111	Theatre Appreciation	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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. This is a Universal General Education Transfer Component (UGETC) course. 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 ENG 002					
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>					

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. <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					
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. <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					
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, SP					
EDU 131	Child, Family, & Community	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the development of partnerships among 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 and supporting respectful relationships between diverse families, programs/schools, and community agencies/resources reflective of the NAEYC Code of Ethical Conduct and the Code of Ethics for North Carolina Educators. Upon completion, students should be able to identify appropriate relationship building strategies between diverse families, children birth through adolescence, 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: None					
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. <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					
EDU 145	Child Development II	3	0	0	3
Prerequisites: None					
Corequisites: None					
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: None					
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: None					
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: None					
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: None

This course covers the emotional/social development of children and the causes, expressions, prevention, and management of challenging behaviors in all children. Emphasis is placed on caregiver/family/child relationships, positive emotional/social environments, developmental concerns, risk factors, and intervention strategies. Upon completion, students should be able to identify factors influencing emotional/social development, utilizing screening measures, and designing positive behavioral support. FA

EDU 157 Active Play 2 2 0 3

Prerequisites: None

Corequisites: None

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: None

This course covers children with exceptionalities as life long learners within the context of the community, school, and family. Emphasis is placed on inclusion, legal, social/political, environmental, and cultural issues relating to the teaching of children with exceptionalities. Upon completion, students should be able to demonstrate knowledge of identification processes, inclusive techniques, and professional practices and attitudes. SP

EDU 184 Early Childhood Introductory Practicum 1 3 0 2

Prerequisites: EDU 119

Corequisites: None

This course introduces students to early childhood settings and applying skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on observing children and assisting in the implementation of developmentally appropriate activities/environments for all children; and modeling reflective/professional practices. Upon completion, students should be able to demonstrate developmentally appropriate interactions with children and ethical/professional behaviors as indicated by assignments and on site faculty visits. FA

EDU 187 Teaching and Learning for All 3 3 0 4

Prerequisites: None

Corequisites: None

This course introduces students to knowledge, concepts, and best practices needed to provide developmentally appropriate, effective, inclusive, and culturally responsive educational experiences in the classroom. Topics include growth and development, learning theory, student motivation, teaching diverse learners, classroom management, inclusive environments, student-centered practices, instructional strategies, teaching methodologies, observation/assessment techniques, educational planning, reflective practice, collaboration, cultural competence, ethics, professionalism, and leadership. Upon completion, students should be able to identify the knowledge, skills, roles, and responsibilities of an effective educator as defined by state and national professional teaching standards. FA

EDU 188 Issues in Early Childhood Education 2 0 0 2

Prerequisites: None

Corequisites: None

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: None

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. *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

EDU 221 Children with Exceptionalities 3 0 0 3

Prerequisites: EDU 144 and EDU 145

Corequisites: None

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, describe the referral process, identify community resources, explain the importance of collaboration with families/professionals, and develop appropriate strategies/adaptations to support children in all environments with best practices as defined by laws, policies and the NC Foundations for Early Learning and Development. *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

EDU 234 Infants, Toddlers, and Twos 3 0 0 3

Prerequisites: EDU 119

Corequisites: None

This course covers the development of high-quality, individualized, responsive/engaging relationships and experiences for infants, toddlers, and twos. Emphasis is placed on typical and atypical child development, working with diverse families to provide positive, supportive, and engaging early learning activities and interactions through field experiences and the application of the NC Foundations for Early Learning and Development. Upon completion, students should be able to demonstrate responsive curriculum planning, respectful relationships and exposure to a variety of developmentally appropriate experiences/materials that support a foundation for healthy development and growth of culturally, linguistically and ability diverse children birth to 36 months. SP

EDU 250 Teacher Licensure Preparation 3 0 0 3

Prerequisites: ENG 111 and

MAT 143 or

MAT 152 or

MAT 171

Corequisites: None

This course provides information and strategies necessary for transfer to a teacher licensure program at a senior institution. Topics include entry level teacher licensure exam preparation, performance based assessment systems, requirements for entry into teacher education programs, the process to become a licensed teacher in North Carolina, and professionalism including expectations within the field of education.

Upon completion, students should be able to utilize educational terminology and demonstrate knowledge of teacher licensure processes including exam preparation, technology based portfolio assessment, and secondary admissions processes to the school of education at a senior institution. SP

EDU 251 Exploration Activities 3 0 0 3

Prerequisites: None

Corequisites: None

This course covers fundamental concepts in the content areas of science, technology, engineering, math and social studies through investigative experiences. Emphasis is placed on exploring fundamental concepts, developmentally appropriate scope and sequence, and teaching strategies to engage each child in the discovery approach. Upon completion, students should be able to understand major concepts in each content area and implement appropriate experiences for young children. SP

EDU 259 Curriculum Planning 3 0 0 3

Prerequisites: EDU 119

Corequisites: None

This course is designed to focus on using content knowledge to build developmentally effective approaches for culturally/linguistically/ability diverse young children. Topics include components of curriculum, a variety of curriculum models, authentic observation and assessment, and planning developmentally appropriate experiences aligned with the NC Foundations for Early Learning and Development. Upon completion, students should be able to understand, evaluate, and use curriculum to plan for individual/group needs. SP

EDU 261 Early Childhood Administration I 3 0 0 3

Prerequisites: None

Corequisites: 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: EDU 119

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: None

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 279 Literacy Develop and Instruct 3 3 0 4

Prerequisites: None

Corequisites: None

This course is designed to provide students with concepts and skills of literacy development, instructional methods/materials and assessment techniques needed to provide scientifically-based, systematic reading and writing instruction into educational practice. Topics include literacy concepts, reading and writing

development, developmentally appropriate pedagogy, culturally-responsive instruction, standards-based outcomes, lesson planning, formative/summative assessment, recognizing reading difficulties, research-based interventions, authentic learning experiences, classroom implementation, and reflective practice. Upon completion, students should be able to plan, implement, assess, evaluate, and demonstrate developmentally appropriate literacy instruction aligned to the NC Standard Course of Study and other state and national standards. SP

EDU 280 Language & Literacy Experiences 3 0 0 3

Prerequisites: None

Corequisites: None

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: None

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 220 Engineering Statics 3 0 0 3

Prerequisites: PHY 251

Corequisites: MAT 272

This course introduces the concepts of engineering based on forces in equilibrium. Topics include concentrated forces, distributed forces, forces due to friction, and inertia as they apply to machines, structures, and systems. Upon completion, students should be able to solve problems which require the ability to analyze systems of forces in static equilibrium. *This course has been approved for transfer under the CAA as a premajor and/or elective course requirement. This course has been approved for transfer under the ICAA as a premajor and/or elective course requirement. FA*

EGR 250	Statics/Strength of Mater	4	3	0	5
Prerequisites: MAT 121 or MAT 171					
Corequisites: None					
This course includes vector analysis, equilibrium of force systems, friction, sectional properties, stress/strain, and deformation. Topics include resultants and components of forces, moments and couples, free-body diagrams, shear and moment diagrams, trusses, frames, beams, columns, connections, and combined stresses. Upon completion, students should be able to analyze simple structures. 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. Students may receive credit for this course by successfully completing non-credit course ELC 3119A. SP					
ELC 114	Commercial Wiring	2	6	0	4
Prerequisites: None					
Corequisites: None					
This course provides instruction in the application of electrical tools, materials, and test equipment associated with commercial electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with commercial 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. Students may receive credit for this course by successfully completing non-credit course ELC-3119F. 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. Students may receive credit for this course by successfully completing non-credit course MNT 3065L. 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. Students may receive credit for this course by successfully completing non-credit course ELC 3100A. FA					
ELC 121	Electrical Estimating	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers the principles involved in estimating electrical projects. Topics include take-offs of materials and equipment, labor, overhead, and profit. Upon completion, students should be able to estimate simple electrical projects. FA					

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. Students may receive credit for this course by successfully completing non-credit course ISC 3138E. SP					
ELC 131	Circuit Analysis	3	3	0	4
Prerequisites: None					
Corequisites: None					
This course introduces DC and AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include DC and AC principles, circuit analysis laws and theorems, components, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret circuit schematics; design, construct, verify, and analyze DC/AC circuits; and properly use test equipment. FA					
ELC 131A	Circuit Analysis I Lab	0	3	0	1
Prerequisites: None					
Corequisites: ELC 131					
This course provides laboratory assignments as applied to fundamental principles of DC/AC electricity. Emphasis is placed on measurements and evaluation of electrical components, devices and circuits. Upon completion, the students will gain hands-on experience by measuring voltage, current, and opposition to current flow utilizing various meters and test equipment. FA					
ELC 134	Transformer Applications	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course covers single- and three-phase transformer applications as found in industrial/commercial buildings and machinery. Topics include transformer principles, single- and three-phase calculations, and connections. Upon completion, students should be able to understand single- and three-phase transformers, make transformer connections, and make calculations. SP					
ELC 139	AC Circuit Analysis	3	3	0	4
Prerequisites: None					
Corequisites: None					
This course introduces AC electricity with an emphasis on circuit analysis, measurements, and operation of test equipment. Topics include AC voltages, circuit analysis laws and theorems, reactive components and circuits, transformers, test equipment operation, circuit simulation, and other related topics. Upon completion, students should be able to interpret AC circuit schematics; analyze and troubleshoot AC circuits; and properly use test equipment. 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. FA					
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. 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. SP					
ELN 232	Intro to Microprocessors	3	3	0	4
Prerequisites: None					
Corequisites: None					
This course introduces microprocessor architecture and microcomputer systems including memory and input/output interfacing. Topics include low-level language programming, bus architecture, I/O systems, memory systems, interrupts, and other related topics. Upon completion, students should be able to interpret, analyze, verify, and troubleshoot fundamental microprocessor circuits and programs using appropriate techniques and test equipment. FA					
EMS 110	EMT	6	6	3	9
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 130	Pharmacology	3	3	0	4
Prerequisites: EMS 110, Enrollment in Emergency Medical Science program					
Corequisites: None					
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 must meet current guidelines for advanced airway management in the pre-hospital setting. Upon completion, students should be able to properly utilize all airway adjuncts and pharmacology associated with airway control and maintenance.					
EMS 160	Cardiology I	2	3	0	3
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 rhythm interpretation. Upon completion, students should be able to recognize and interpret 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, cardiac pharmacology, and patient care. Upon completion, students should be able to manage the cardiac patient.					
EMS 221	EMS Clinical Practicum II	0	0	6	2
Prerequisites: EMS 121 or EMS 122, 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 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 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	3	3	0	4
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 provide currently credentialed state or national Paramedic students with the most current education trends in Paramedic Practice. Emphasis is placed on transitions in healthcare. Upon completion, students should be able to integrate emerging trends in pre-hospital care.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 002	Transition English	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course provides an opportunity to customize foundational English content in specific areas and will include developing a growth mindset. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in college-level English. Upon completion,					

students should be able to build a stronger foundation for success in their gateway level English courses by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge. FA, SP

ENG 011	Writing and Inquiry Support	1	2	0	2
Prerequisites: None					
Corequisites: None					
This course is designed to support students in the development of skills necessary for success in ENG 111 by complementing, supporting, and reinforcing ENG 111 Student Learning Outcomes. Emphasis is placed on developing a growth mindset, expanding skills for use in active reading and writing processes, recognizing organizational relationships within texts from a variety of genres and formats, and employing appropriate technology when reading and composing texts. Upon completion, students should be able to apply active reading strategies to college-level texts and produce unified, well-developed writing using standard written English. FA, SP					
ENG 111	Writing and Inquiry	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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 Minimum grade C					
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 Minimum grade C					
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 Minimum grade C					
Corequisites: None					
This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually					

and collaboratively to produce well-designed business and professional written and oral presentations. *This course has been approved for transfer under the 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.* FA, SP

ENG 125 Creative Writing I 3 0 0 3

Prerequisites: ENG 111 Minimum grade C

Corequisites: None

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. *This course has been approved 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

ENG 231 American Literature I 3 0 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114 Minimum grade C

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. *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, SU

ENG 232 American Literature II 3 0 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114 Minimum grade C

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. *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

ENG 241 British Literature I 3 0 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114 Minimum grade C

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. *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

ENG 242 British Literature II 3 0 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114 Minimum grade C

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. *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

ENG 243 Major British Writers 3 0 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114 Minimum grade C

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. *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

ENG 261 World Literature I 3 0 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114 Minimum grade C

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. *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

ENG 262 World Literature II 3 0 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114 Minimum grade C

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. *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

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 ENG 002					
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. <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>					
FRE 112	Elementary French II	3	0	0	3
Prerequisites: FRE 111 Minimum grade C					
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. <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>					
GEL 111	Geology	3	2	0	4
Prerequisites: DRE 098 or ENG 002					
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. <i>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.</i>					
GEO 111	World Regional Geography	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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. <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>					
GER 111	Elementary German I	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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. <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>					

GER 112	Elementary German II	3	0	0	3
Prerequisites: GER 111 Minimum grade C					
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. SP</i>					
GRA 151	Computer Graphics I	1	3	0	2
Prerequisites: None					
Corequisites: None					
This course introduces the use of hardware and software for production and design in graphic arts. Topics include graphical user interface and current industry uses such as design, layout, typography, illustration, and imaging for production. Upon completion, students should be able to understand and use the computer as a fundamental design and production tool. 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					
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 ENG-002					
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. *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*

HIS 112 World Civilizations II 3 0 0 3

Prerequisites: DRE 098 or ENG 002

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. *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*

HIS 131 American History I 3 0 0 3

Prerequisites: DRE 098 or ENG 002

Corequisites: None

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. *This course has been approved for transfer under the 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*

HIS 132 American History II 3 0 0 3

Prerequisites: DRE 098 or ENG 002

Corequisites: None

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. *This course has been approved for transfer under the 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. SP*

HIS 145 The Second World War 3 0 0 3

Prerequisites: DRE 098 or ENG 002

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. *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*

HIS 221 African-American History 3 0 0 3

Prerequisites: DRE 098 or ENG 002

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. *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*

HIS 236 North Carolina History 3 0 0 3

Prerequisites: DRE 098 or ENG 002

Corequisites: None

This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina. *This course has been approved 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*

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 227	Children & Adol in Crisis	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course covers the crises affecting children and adolescents in contemporary society. Emphasis is placed on abuse and neglect, suicide and murder, dysfunctional family living, poverty, and violence. Upon completion, students should be able to identify and discuss intervention strategies and available services for the major contemporary crises affecting children and adolescents. SP					
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 110	Technology and Society	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
Corequisites: None					
This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology. <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 115	Critical Thinking	3	0	0	3
Prerequisites: DRE 098 or ENG 002, ACA-122 and 30 hours in program					
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 ENG 002					
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 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. SP, SU</i>					
HUM 130	Myth in Human Culture	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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. <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>					
HUM 160	Introduction to Film	2	2	0	3
Prerequisites: DRE 098 or ENG 002					
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. <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>					
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					

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: None

Corequisites: None

This course introduces the study of real property law. Topics include the distinction between real and personal property, various estates, mechanics of conveyance and encumbrance, recordation, special proceedings, and other related topics. Upon completion, students should be able to identify estates, forms of deeds, requirements for recording, and procedures to enforce rights to real property. 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: None

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: None

Corequisites: None

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

LEX 250 Wills, Estates, & Trusts 2 2 0 3

Prerequisites: None

Corequisites: None

This course covers various types of wills, trusts, probate, estate administration, and intestacy. Topics include types of wills and execution requirements, caveats and dissents, intestate succession, inventories and accountings, distribution and settlement, and other related topics. Upon completion, students should be able to draft simple wills, prepare estate forms, understand administration of estates including taxation, and explain terms regarding trusts. SP

LEX 280 Ethics & Professionalism 2 0 0 2

Prerequisites: None

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 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. FA

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 171	Measure/Material & Safety	0	2	0	1
Prerequisites: None					
Corequisites: None					
This course introduces precision measuring instruments, process control and adjustment, inspection, material handling and workplace safety. Topics include properly identifying and handling various measurement instruments and materials, process control, adjustment and improvement, personal protective equipment (PPE) and OSHA safety regulations. Upon completion, students should be able to safely demonstrate effective measurement techniques, identify and handle various materials, and explain safe industry practices. 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					
MAT 001	Math Skills Support	0	2	0	1
Prerequisites: None					
Corequisites: None					
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 co-requisite math course. Upon completion, students should be able to apply mathematical concepts and critical thinking skills to solve problems relevant to the student's co-requisite math course.					
MAT 003	Transition Math	0	6	0	3
Prerequisites: None					
Corequisites: None					
This course provides an opportunity to customize foundational math content in specific math areas and will include developing a growth mindset. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in their gateway level math courses by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.					
MAT 043	Quantitative Literacy Support	1	2	0	2
Prerequisites: None					
Corequisites: MAT 143					
This course provides an opportunity to customize foundational math content specific to Quantitative Literacy. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Quantitative Literacy by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.					
MAT 052	Statistical Methods I Support	1	2	0	2
Prerequisites: None					
Corequisites: MAT 152					
This course provides an opportunity to customize foundational math content specific to Statistical Methods I. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Statistical Methods I by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.					

MAT 071	Precalculus Algebra Support	0	4	0	2
Prerequisites: None					
Corequisites: MAT 171					
This course provides an opportunity to customize foundational math content specific to Precalculus Algebra. Topics include developing the academic habits, learning strategies, social skills, and growth mindset necessary to be successful in mathematics. Upon completion, students should be able to build a stronger foundation for success in Precalculus Algebra by obtaining skills through a variety of instructional strategies with emphasis placed on the most essential prerequisite knowledge.					
MAT 121	Algebra/Trigonometry I	2	2	0	3
Prerequisites: MAT 060, MAT 070, MAT 080 or DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060 or DMA 010, DMA 020, DMA 030, DMA-045 or DMA 010, DMA 020, DMA 030, DMA 040, DMA 050 or DMA 025, DMA 040, DMA 050 or DMA 025, DMA 045 or MAT 003					
Corequisites: None					
This course provides an integrated approach to technology and the skills required to manipulate, display, and interpret mathematical functions and formulas used in problem solving. Topics include the properties of plane and solid geometry, area and volume, and basic proportion applications; simplification, evaluation, and solving of algebraic equations and inequalities and radical functions; complex numbers; right triangle trigonometry; and systems of equations. Upon completion, students will be able to demonstrate the ability to use mathematics and technology for problem-solving, analyzing and communicating results.					
MAT 143	Quantitative Literacy	2	2	0	3
Prerequisites: MAT 060, MAT 070, DRE 098 or DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DRE 098 or DMA 010, DMA 020, DMA 030, DMA-045, DRE 098 or DMA 025, DMA 040, DMA 050, DRE 098 or DMA 025, DMA 045, DRE 098 or MAT 003 ENG 002					
Corequisites: MAT 043 if required					
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: MAT 060, MAT 070, DRE 098 or DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, and DRE 098 or DMA 010, DMA 020, DMA 030, DMA-045, DRE 098 or DMA 025, DMA 040, DMA 050, DRE 098 or DMA 025, DMA 045, DRE 098 or MAT 003 ENG 002					
Corequisites: MAT 052 if required					
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. *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.*

MAT 171 Precalculus Algebra 3 2 0 4

Prerequisites: MAT 060, MAT 070, MAT 080 or
DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 060, DMA 070, DMA 080 or
DMA 010, DMA 020, DMA 030, DMA-045, DMA 065 or
DMA 010, DMA 020, DMA 030, DMA 040, DMA 050, DMA 065 or
DMA 025, DMA 040, DMA 050, DMA 065 or
DMA 025, DMA 045, DMA 065 or
MAT 003

Corequisites: MAT 071 if required

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. *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.*

MAT 172 Precalculus Trigonometry 3 2 0 4

Prerequisites: MAT 171 Minimum grade C
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. *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.*

MAT 263 Brief Calculus 3 2 0 4

Prerequisites: MAT 171 Minimum grade C
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. *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

MAT 271 Calculus I 3 2 0 4

Prerequisites: MAT 172 Minimum grade C
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 solutions to derivative-related problems with and without technology. *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. FA, SP

MAT 272 Calculus II 3 2 0 4

Prerequisites: MAT 271 Minimum grade C
Corequisites: None

This course is designed to develop advanced topics of differential and integral calculus. Emphasis is placed on the applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to select and use appropriate models and techniques for finding solutions to integral-related problems with or without technology. *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

MAT 273 Calculus III 3 2 0 4

Prerequisites: MAT 272 Minimum grade C
Corequisites: None

This course is designed to develop the topics of multivariate calculus. Emphasis is placed on multivariate functions, partial derivatives, multiple integration, solid analytical geometry, vector valued functions, and the line and surface integrals. Upon completion, students should be able to select and use appropriate models and techniques for finding the solution to multivariate-related problems with and without technology. *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.* FA

MAT 280 Linear Algebra 2 2 0 3

Prerequisites: MAT 271 Minimum grade C
Corequisites: None

This course provides an introduction to linear algebra topics. Emphasis is placed on the development of abstract concepts and applications for vectors, system of equations, matrices, determinants, vector spaces, multi-dimensional linear transformations, eigenvectors, eigenvalues, diagonalization and orthogonality. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to linear algebra-related problems with and without technology. *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

MAT 285 Differential Equations 2 2 0 3

Prerequisites: MAT 272 Minimum Grade C
Corequisites: None

This course provides an introduction to topics involving ordinary differential equations. Emphasis is placed on the development of abstract concepts and applications for first-order and linear higher-order differential equations, systems of differential equations, numerical methods, series solutions, eigenvalues and eigenvectors, and Laplace transforms. Upon completion, students should be able to demonstrate understanding of the theoretical concepts and select and use appropriate models and techniques for finding solutions to differential equations-related problems with and without technology. *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

MEC 130 Mechanisms 2 2 0 3

Prerequisites: None
Corequisites: None

This course introduces the purpose and action of various mechanical devices. Topics include cams, cables, gear trains, differentials, screws, belts, pulleys, shafts, levers, lubricants, and other devices. Upon completion, students should be able to analyze, maintain, and troubleshoot the components of mechanical systems. 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 161	Manufacturing Processes I	3	0	0	3
Prerequisites: None					
Corequisites: None					
This course provides the fundamental principles of value-added processing of materials into usable forms for the customer. Topics include material properties and traditional and non-traditional manufacturing processes. Upon completion, students should be able to specify appropriate manufacturing processing for common engineering materials. 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 ENG 002					
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 ENG 002					
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 ENG 002					
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 ENG 002					
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: Enrollment in the Medical Assisting program; MED 131					
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: Enrollment in the Medical Assisting program and MED 140					
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					

MUS 110	Music Appreciation	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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 ENG 002					
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, SP					
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: Enrollment in Nurse Aide program and NAS 101					
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 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: Enrollment in the PN program and NUR 101					
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: Enrollment in the PN program and NUR 101					
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: Enrollment in the ADN program and NUR 111					
Corequisites: None					
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of 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: Enrollment in the ADN program and NUR 111					
Corequisites: None					
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of 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: Enrollment in the ADN program and NUR 111					
Corequisites: None					
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. FA					
NUR 211	Health Care Concepts	3	0	6	5
Prerequisites: Enrollment in the ADN program and NUR 111					
Corequisites: None					
This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection,					

immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course. SP

NUR 212 Health System Concepts 3 0 6 5

Prerequisites: Enrollment in the ADN program and NUR 111

Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of 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 213 Complex Health Concepts 4 3 15 10

Prerequisites: Enrollment in the ADN program and NUR 111

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. Students may receive credit for this course by successfully completing non-credit course CIS-3100A. 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. Students may receive credit for this course by successfully completing non-credit course MED 3100M. 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. Students may receive credit for this course by successfully completing non-credit course MED 3100M. 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. Students may receive credit for this course by successfully completing non-credit course MED 3100M. 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 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					
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. *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

PED 121	Walk, Jog, Run	0	3	0	1
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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. *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.*

PED 122	Yoga I	0	2	0	1
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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. *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.*

PED 142	Lifetime Sports	0	2	0	1
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Prerequisites: None

Corequisites: None

This course is designed to give an overview of a variety of sports activities. Emphasis is placed on the skills and rules necessary to participate in a variety of lifetime sports. Upon completion, students should be able to demonstrate an awareness of the importance of participating in lifetime sports activities. *This course has been approved 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.*

PED 186	Dancing For Fitness	0	2	0	1
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Prerequisites: None

Corequisites: None

This course is designed to develop movement and recreational dance skills, safety, fitness, coordination, and techniques used to teach various groups. Emphasis is placed on participation and practice with adapting dances for ages and ability levels. Upon completion, students should be able to demonstrate knowledge of fitness through social, folk, and square dance participation and instruction. *This course has been approved 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.*

PED 219	Disc Golf	0	2	0	1
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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. *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

PHI 215	Philosophical Issues	3	0	0	3
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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. *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.*

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. *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.*

PHY 110 Conceptual Physics 3 0 0 3

Prerequisites: MAT 060 and MAT 070 or

DMA 010, DMA 020, DMA 030, DMA 040 or

DMA 010, DMA 020, DMA 030, DMA 045 or

DMA 025, DMA 040 or

DMA 025, DMA 045 or

MAT 003 or

MAT 010 or

MAT 021 or

MAT 043 or

MAT 052 or

MAT 071

Corequisites: None

This course provides a conceptually-based exposure to the fundamental principles and processes of the physical world. Topics include basic concepts of motion, forces, energy, heat, electricity, magnetism, and the structure of matter and the universe. Upon completion, students should be able to describe examples and applications of the principles studied. *This course has been approved for transfer under the 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*

PHY 110A Conceptual Physics Lab 0 2 0 1

Prerequisites: None

Corequisites: PHY 110

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110. *This course has been approved 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*

PHY 151 College Physics I 3 2 0 4

Prerequisites: MAT 171 or MAT 271 Minimum grade C

Corequisites: None

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. *This course has been approved 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

PHY 152 College Physics II 3 2 0 4

Prerequisites: PHY 151 Minimum grade C

Corequisites: None

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

PHY 251 General Physics I 3 3 0 4

Prerequisites: MAT 271 Minimum grade C

Corequisites: MAT 272

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vector operations, linear kinematics and dynamics, energy, power, momentum, rotational mechanics, periodic motion, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. *This course has been approved 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*

PHY 252 General Physics II 3 3 0 4

Prerequisites: MAT 272 and PHY 251 Minimum grade C

Corequisites: None

This course uses calculus-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include electrostatic forces, electric fields, electric potentials, direct-current circuits, magnetostatic forces, magnetic fields, electromagnetic induction, alternating-current circuits, and light. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. *This course has been approved for transfer under the 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*

POL 120 American Government 3 0 0 3

Prerequisites: DRE 098 or ENG 002

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. *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*

PSY 150 General Psychology 3 0 0 3

Prerequisites: DRE 098 or ENG 002

Corequisites: None

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be

able to demonstrate a basic knowledge of the science of psychology. *This course has been approved for transfer under the 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.*

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. *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.*

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. *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*

REL 110 World Religions 3 0 0 3

Prerequisites: DRE 098 or ENG 002

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. *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*

REL 211 Introduction to Old Testament 3 0 0 3

Prerequisites: DRE 098 or ENG 002

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. *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*

REL 212 Introduction to New Testament 3 0 0 3

Prerequisites: DRE 098 or ENG 002

Corequisites: None

This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature. *This course has been approved for transfer under the 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*

REL 221 Religion in America 3 0 0 3

Prerequisites: DRE 098 or ENG 002

Corequisites: None

This course is an examination of religious beliefs and practice in the United States. Emphasis is placed on mainstream religious traditions and non-traditional religious movements from the Colonial period to the present. Upon completion, students should be able to recognize and appreciate the diversity of religious traditions in America. *This course has been approved 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*

RUS 111 Elementary Russian I 3 0 0 3

Prerequisites: DRE 098 or ENG 002

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 Minimum grade C

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. Students may receive credit for this course by successfully completing non-credit course SEC 3100A. 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 ENG 002					
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 220	Social Problems	3	0	0	3
Prerequisites: DRE 098 or ENG 002					
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 ENG 002					
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>					

SON 110	Introduction to Sonography	1	3	3	3
Prerequisites: Enrollment in the Medical 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 110AB	Introduction to Sonography (part one)	1	0	0	1
SON 110BB	Introduction to Sonography (part two)	0	3	3	2
SON 111	Sonographic Physics	3	3	0	4
Prerequisites: Enrollment in Medical 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: Enrollment in the Medical Sonography program and SON 110					
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: Enrollment in the Medical Sonography program and SON 120					
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: Enrollment in the Medical Sonography program and SON 130					
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: Enrollment in the Medical Sonography program and SON 110					
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: Enrollment in the Medical Sonography program and SON 121					
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: Enrollment in the Medical Sonography program and SON 220					
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: Enrollment in the Medical Sonography program and SON 110					
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: Enrollment in the Medical Sonography program and SON 110					
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: Enrollment in the Medical Sonography program and SON 241					
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 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: Enrollment in the Medical Sonography program and SON 110					
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 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: Enrollment in the Medical Sonography program and SON 110					
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 ENG 002					
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 Minimum Grade C					
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. Students may receive credit for this course by successfully completing non-credit course AUT 3137E. 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. FA					
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. Students may receive credit for this course by successfully completing non-credit course AUT-3137B. 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. Students may receive credit for this course by successfully completing non-credit course AUT 3109I. 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 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. Students may receive credit for this course by successfully completing non-credit course WLD-3106AA. 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. Students may receive credit for this course by successfully completing non-credit course WLD-3106AB. 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. Students may receive credit for this course by successfully completing non-credit course WLD-3106AC. 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. Students may receive credit for this course by completing noncredit course WLD-3106AD. 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 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					

