

COURSE DESCRIPTIONS



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NOTE: All numbers to the right of the course titles in the Course Description section refer to contact hours and total semester credit hours for classes in the following order:

Examples:

		Hours	Per	Week	Semester
		Class	Lab	Clin	Hours
					Credit
ACC 120	Principles of Accounting I	3	2		4
BIO 168	Anatomy and Physiology I	3	3		4
ENG 111	Expository Writing	3	0		3

Health Education courses are listed in the following order:

	Hours	Per	Week	Semester
	Class	Lab	Clin	Hours
				Credit
NUR 110	5	3	6	8

ACA - Academic Related

ACA 115 Success & Study Skills 0 2 1
Prerequisites: None
Corequisites: None

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

ACA 118 College Study Skills 1 2 2
Prerequisites: None
Corequisites: None

This course covers skills and strategies designed to improve study behaviors. Topics include time management, note taking, test taking, memory techniques, active reading strategies, critical thinking, communication skills, learning styles, and other strategies for effective learning. Upon completion, students should be able to apply appropriate study strategies and techniques to the development of an effective study plan.

ACA 120 Career Assessment 1 0 1
Prerequisites: None
Corequisites: None

This course provides the information and strategies necessary to develop clear personal, academic, and professional goals. Topics include personality styles, goal setting, various college curricula, career choices, and campus leadership development. Upon completion, students should be able to clearly state their personal, academic, and professional goals and have a feasible plan of action to achieve those goals.

ACA 121 Managing a Team 1 0 1
Prerequisites: None
Corequisites: None

This course focuses on the process of the individual with an awareness of the reality in the collective teamwork approach for the workplace emphasizing process-orientation. Topics include how teams work, team effectiveness, team-building techniques, positive thinking, and leadership principles. Upon completion, students should be able to demonstrate an understanding of how teamwork strengthens ownership, involvement, and responsibility in the workplace.

ACC - Accounting

ACC 115 College Accounting 3 2 4
Prerequisites: None
Corequisites: None

This course introduces basic accounting principles for a business. Topics include the complete accounting cycle with end-of-period statements, bank reconciliation, payrolls, and petty cash. Upon completion, students should be able to demonstrate an understanding of accounting principles and apply those skills to a business organization.

ACC 120 Prin Of Financial Acct 3 2 4
(College Transfer)

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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

ACC 121 Prin of Managerial Accounting 3 2 4
(College Transfer)

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 to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

ACC 131 Federal Income Taxes 2 2 3

Prerequisites: None

Corequisites: None

This course provides an overview of federal income taxes for individuals, partnerships, and corporations. Topics include tax law, electronic research and methodologies and the use of technology for the preparation of individual and business tax returns. Upon completion, students should be able to analyze basic tax scenarios, research applicable tax laws, and complete federal tax returns for individuals, partnerships, and corporations.

ACC 140 Payroll Accounting 1 2 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. *This course is also available through the Virtual Learning Community (VLC).*

ACC 150 Acct Software Appl 1 2 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 accounting problems. *This course is also available through the Virtual Learning Community (VLC).*

ACC 220 Intermediate Accounting I 3 2 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 extensive analysis of balance sheet statements. Upon completion, students should be able to demonstrate competence in the conceptual framework underlying financial accounting, including the application of financial standards. *This course is also available through the Virtual Learning Community (VLC).*

ACC 221 Intermediate Acct II 3 2 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.

ACC 225 Cost Accounting 3 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. *This course is also available through the Virtual Learning Community (VLC).*

AGR - Agriculture

AGR 140	Agricultural Chemicals	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course covers all aspects of agricultural chemicals. Topics include safety, environmental effects, federal and state laws, pesticide classification, sprayer calibration, and licensing. Upon completion, students should be able to calibrate a sprayer, give proper pesticide recommendations, and demonstrate safe handling of pesticides.

AGR 150	Ag-O-Metrics	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course introduces basic calculations for agricultural applications. Topics include the metric system, land measurement, feed efficiency, rate of gain, chemical calibration, and payroll. Upon completion, students should be able to perform calculations that pertain to agricultural production.

AGR 160	Plant Science	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course introduces the basic principles of botany that pertain to agricultural production. Emphasis is placed on the anatomy and physiology of flowering plants. Upon completion, students should be able to identify and explain plant systems.

AGR 170	Soil Science	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course covers the basic principles of soil fertilizing. Topics include liming, fertilization, management, and plant nutrients. Upon completion, students should be able to give nutrient and liming recommendations for soils.

AGR 212	Farm Business Management	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course introduces budgeting, farm analysis, production costs, business organizations, and general management principles. Topics include enterprise budgets, partial budgets, whole farm budgets, income analysis, and business organizations. Upon completion, students should be able to prepare and analyze a farm budget.

AGR 213	Ag Law & Finance	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course covers the basic laws and financial aspects affecting agriculture. Topics include environmental laws, labor laws, contractual business operations, assets, liabilities, net worth, and funding sources. Upon completion, students should be able to complete loan application procedures and explain basic laws affecting the agricultural industry.

AGR 214 Agricultural Marketing 3 0 3
 Prerequisites: None
 Corequisites: None

This course covers basic marketing principles for agricultural products. Topics include buying, selling, processing, standardizing, grading, storing, and marketing of agricultural commodities. Upon completion, students should be able to construct a marketing plan for an agricultural product.

AGR 261 Agronomy 2 2 3
 Prerequisites: None
 Corequisites: None

This course provides a basic introduction to field and forage crops. Topics include forage crops, field crops, seed selection, fertility management, field preparation, harvesting, and storage. Upon completion, students should be able to demonstrate a knowledge of forage and field crop production practices.

ANS - Animal Science

ANS 110 Animal Science 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces the livestock industry. Topics include nutrition, reproduction, production practices, diseases, meat processing, and marketing. Upon completion, students should be able to demonstrate a basic understanding of livestock production practices and the economic impact of livestock in North Carolina.

ANS 115 Animal Feeds & Nutrition 2 2 3
 Prerequisites: None
 Corequisites: None

This course covers the fundamentals of animal feeding and nutrition. Topics include nutrient requirements, digestion, feed formulation, and classification. Upon completion, students should be able to demonstrate a knowledge of nutritional requirements and feeding practices of farm animals.

ANS 116 Intro to the Equine Ind 3 0 3
 Prerequisites: None
 Corequisites: None

This Course provides an introduction to the equine industry. Topics include history, breeds, disciplines, economic impact, and career opportunities within the industry. Upon completion, students should be able to demonstrate a basic understanding of the equine industry and as it relates to animal science, production, and management.

ANS 120 Beef Production 2 2 3
 Prerequisites: None
 Corequisites: None

This course provides an introduction to the beef cattle industry. Topics include reproduction, cattle management, marketing, anatomy and physiology, and pasture management. Upon completion, students should be able to demonstrate a basic understanding of beef cattle production practices and the economic impact of the beef cattle industry in North Carolina.

ANS 130 Poultry Production 2 2 3
 Prerequisites: None
 Corequisites: None

This course provides an introduction to the poultry industry. Topics include anatomy and physiology, reproduction, incubation, and husbandry. Upon completion, students should be able to demonstrate a basic understanding of poultry production and the economic impact of the poultry industry in North Carolina.

ANS 140 Swine Production 2 2 3
 Prerequisites: None
 Corequisites: None

This course provides an introduction to the swine industry. Topics include basic skills for breeding, farrowing, nursery, and grower/finisher. Upon completion, students should be able to demonstrate a basic understanding of swine production practices and the economic impact of the swine industry in North Carolina.

ANS 142 Swine Records & Analysis 2 2 3
 Prerequisites: ANS 140
 Corequisites: None

This course introduces production records utilized by the swine industry. Topics include types of records needed, establishing production goals, calculating production efficiencies, understanding computer applications in record keeping, and interpreting production data. Upon completion, students should be able to establish production goals, calculate production efficiencies, complete a production summary, and interpret data from computer printouts. *This course is a unique concentration requirement in the Swine Management concentration in the Applied Animal Science Technology program.*

ANS 143 Swine Health Management 2 2 3
 Prerequisites: None
 Corequisites: None

This course covers all aspects of swine disease and health management. Emphasis is placed on disease identification and treatment, biosecurity and herd health plans, routine swine health practices, and laws and regulations applying to swine. Upon completion, students should be able to identify and recommend treatment for major diseases, develop a herd health plan, and describe the appropriate uses for medications. *This course is a unique concentration requirement in the Swine Management concentration in the Applied Animal Science Technology program.*

ANS 144 Swine Housing & Waste Mgt 4 0 4
 Prerequisites: ANS 140
 Corequisites: None

This course includes the areas of swine waste management and confinement facilities for swine. Emphasis is placed on types of waste management systems, types of building systems used, and managing the internal environment in confinement buildings. Upon completion, students should be able to identify types of waste systems used, determine waste application rates, and identify types of housing and ventilation systems. *This course is a unique concentration requirement in the Swine Management concentration in the Applied Animal Science Technology program.*

ANS 150 Animal Health Management 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces animal diseases and health management. Topics include identification, prevention, control, and treatment of diseases. Upon completion, students should be able to recognize disease symptoms, recommend treatments, identify preventive steps, and develop biosecurity procedures.

ANS 180 Equine Production 3 2 4
 Prerequisites: None
 Corequisites: None

This course provides an introduction to the production of horses. Topics include anatomy and physiology, reproduction, genetics, selection, and basic management practices. Upon completion, students should be able to demonstrate a basic understanding of the production and management of horses.

ANS 240 Swine Prod Issues 2 0 2
 Prerequisites: None
 Corequisites: None

This course explores areas associated with the swine industry. Emphasis is placed on oral presentations, work schedules, résumés, letters of application, recruiting and motivating employees, interviewing, public relations, and in-service activities. Upon completion, students should be able to prepare a résumé, complete a job application and interview, prepare work schedules, and make oral presentations.

ART - Art

ART	110	Introduction to Art (College Transfer)	2	0	2
Prerequisites:	None				
Corequisites:	None				

This course is designed to introduce an awareness of art in the everyday world. Emphasis is placed on art as visual communication. Upon completion, students should be able to demonstrate an understanding of the meanings and purposes of art. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART	111	Art Appreciation (College Transfer)	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course introduces the origins and historical development of art. Emphasis is placed on the relationship of design principles to various art forms including but not limited to sculpture, painting, and architecture. Upon completion, students should be able to identify and analyze a variety of artistic styles, periods, and media. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

ART	113	Art Methods and Materials (College Transfer)	2	2	3
Prerequisites:	None				
Corequisites:	None				

This course provides an overview of media and techniques. Emphasis is placed on exploration and manipulation of materials. Upon completion, students should be able to demonstrate familiarity with a variety of methods, materials, and processes. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART	114	Art History Survey I (College Transfer)	3	0	3
Prerequisites:	None				
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 has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

ART 115 Art History Survey II (College Transfer) 3 0 3

Prerequisites: None
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 has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

ART 116 Survey of American Art (College Transfer) 3 0 3

Prerequisites: None
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 to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

ART 117 Non-Western Art History (College Transfer) 3 0 3

Prerequisites: None
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 to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

ART 130 Basic Drawing (College Transfer) 0 4 2

Prerequisites: None
Corequisites: None

This course introduces basic drawing techniques and is designed to increase observation skills. Emphasis is placed on the fundamentals of drawing. Upon completion, students should be able to demonstrate various methods and their application to representational imagery. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART 131 Drawing I (College Transfer) 0 6 3

Prerequisites: None
Corequisites: None

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

ART 132 Drawing II (College Transfer) 0 6 3

Prerequisites: ART 131
Corequisites: None

This course continues instruction in the language of drawing and the use of various materials. Emphasis is placed on experimentation in the use of drawing techniques, media, and graphic materials. Upon completion, students should be able to demonstrate increased competence in the expressive use of graphic form and techniques. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART 140 Basic Painting (College Transfer) 0 4 2

Prerequisites: None
Corequisites: None

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

ART 240 Painting I (College Transfer) 0 6 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART 241 Painting II (College Transfer) 0 6 3

Prerequisites: ART 240
Corequisites: None

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

ART 281 Sculpture I 0 6 3
(College Transfer)
 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 variety of sculptural approaches. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART 282 Sculpture II 0 6 3
(College Transfer)
 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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART 283 Ceramics I 0 6 3
(College Transfer)
 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART 284 Ceramics II 0 6 3
(College Transfer)
 Prerequisites: ART 283
 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART 285 Ceramics III (College Transfer) 0 6 3

Prerequisites: ART 284
Corequisites: None

This course provides the opportunity for advanced self-determined work in sculptural and functional ceramics. Emphasis is placed on developing the technical awareness of clay bodies, slips, engobes, and firing procedures necessary to fulfill the student's artistic goals. Upon completion, students should be able to demonstrate a knowledge of materials and techniques necessary to successfully create original projects in the clay medium. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ART 286 Ceramics IV (College Transfer) 0 6 3

Prerequisites: ART 285
Corequisites: None

This course provides the opportunity for self-determined work in sculptural and functional ceramics. Emphasis is placed on developing the technical awareness of glaze materials, glaze formulation, and firing techniques necessary to fulfill the student's artistic goals. Upon completion, students should be able to demonstrate knowledge of materials and techniques necessary to successfully create original projects in the clay medium. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

AUT - Automotive

AUT 151 Brake Systems 2 3 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.

AUT 161 Basic Auto Electricity 4 3 5

Prerequisites: None
Corequisites: None

This course covers basic electrical theory and wiring diagrams, test equipment, and diagnosis, repair, 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.

AUT 181 Engine Performance 1 2 3 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.

AUT 281 Adv Engine Performance 2 2 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.

BIO - Biology

BIO 090 Foundations of Biology 3 2 4
 Prerequisites: None
 Corequisites: RED 090

This course introduces basic biological concepts. Topics include basic biochemistry, cell structure and function, interrelationships among organisms, scientific methodology, and other related topics. Upon completion, students should be able to demonstrate preparedness for college-level biology courses

BIO 106 Intro to Anat/Phys/Micro 2 2 3
 Prerequisites: None
 Corequisites: None

This course covers the fundamental and principle concepts of human anatomy and physiology and microbiology. Topics include an introduction to the structure and function of cells, tissues, and human organ systems, and an overview of microbiology, epidemiology, and control of microorganisms. Upon completion, students should be able to identify structures and functions of the human body and describe microorganisms and their significance in health and disease. *This is a diploma level course.*

BIO 110 Principles of Biology (College Transfer) 3 3 4

Prerequisites: None
Corequisites: None

This course provides a survey of fundamental biological principles for non-science majors. Emphasis is placed on basic chemistry, cell biology, metabolism, genetics, taxonomy, evolution, ecology, diversity, and other related topics. Upon completion, students should be able to demonstrate increased knowledge and better understanding of biology as it applies to everyday life. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

BIO 111 General Biology I (College Transfer) 3 3 4

Prerequisites: None
Corequisites: None

This course introduces the principles and concepts of biology. Emphasis is placed on basic biological chemistry, cell structure and function, metabolism and energy transformation, genetics, evolution, classification, and other related topics. Upon completion, students should be able to demonstrate understanding of life at the molecular and cellular levels. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).*

BIO 112 General Biology II (College Transfer) 3 3 4

Prerequisites: BIO 111
Corequisites: None

This course is a continuation of BIO 111. Emphasis is placed on organisms, biodiversity, plant and animal systems, ecology, and other related topics. Upon completion, students should be able to demonstrate comprehension of life at the organismal and ecological levels. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).*

BIO 120 Introductory Botany (College Transfer) 3 3 4

Prerequisites: BIO 110 or BIO 111
Corequisites: None

This course provides an introduction to the classification, relationships, structure, and function of plants. Topics include reproduction and development of seed and non-seed plants, levels of organization, form and function of systems, and a survey of major taxa. Upon completion, students should be able to demonstrate comprehension of plant form and function, including selected taxa of both seed and non-seed plants. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

BIO 130 Introductory Zoology (College Transfer) 3 3 4
 Prerequisites: BIO 110 or BIO 111
 Corequisites: None

This course provides an introduction to the classification, relationships, structure, and function of major animal phyla. Emphasis is placed on levels of organization, reproduction and development, comparative systems, and a survey of selected phyla. Upon completion, students should be able to demonstrate comprehension of animal form and function including comparative systems of selected groups. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

BIO 140 Environmental Biology (College Transfer) 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces environmental processes and the influence of human activities upon them. Topics include ecological concepts, population growth, natural resources, and a focus on current environmental problems from scientific, social, political, and economic perspectives. Upon completion, students should be able to demonstrate an understanding of environmental interrelationships and of contemporary environmental issues. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).*

BIO 140A Environmental Biology Lab (College Transfer) 0 3 1
 Prerequisites: None
 Corequisites: BIO 140

This course provides a laboratory component to complement BIO 140. Emphasis is placed on laboratory and field experience. Upon completion, students should be able to demonstrate a practical understanding of environmental interrelationships and of contemporary environmental issues. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

BIO 163 Basic Anat & Physiology (College Transfer) 4 2 5
 Prerequisites: None
 Corequisites: None

This course provides a basic study of the structure and function of the human body. Topics include a basic study of the body systems as well as an introduction to homeostasis, cells, tissues, nutrition, acid-base balance, and electrolytes. Upon completion, students should be able to demonstrate a basic understanding of the fundamental principles of anatomy and physiology and their interrelationships. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

BIO 168 Anatomy and Physiology I (College Transfer) 3 3 4

Prerequisites: None
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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

BIO 169 Anatomy and Physiology II (College Transfer) 3 3 4

Prerequisites: BIO 168
Corequisites: None

This course provides a continuation of the comprehensive study of the anatomy and physiology of the human body. Topics include the endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems as well as metabolism, nutrition, acid-base balance, and fluid and electrolyte balance. Upon completion, students should be able to demonstrate an in-depth understanding of principles of anatomy and physiology and their interrelationships. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

BIO 250 Genetics (College Transfer) 3 3 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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

BIO 275 Microbiology (College Transfer) 3 3 4

Prerequisites: BIO 110, BIO 112, BIO 163, BIO 165, or BIO 168
Corequisites: None

This course covers principles of microbiology and the impact these organisms have on man and the environment. Topics include the various groups of microorganisms, their structure, physiology, genetics, microbial pathogenicity, infectious diseases, immunology, and selected practical applications. Upon completion, students should be able to demonstrate knowledge and skills including microscopy, aseptic technique, staining, culture methods, and identification of microorganisms. *This course has been*

approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.

BPR - Blueprint Reading

BPR	130	Blueprint Reading/Construction	1	2	2
Prerequisites:	None				
Corequisites:	None				

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

BUS - Business

BUS	110	Introduction to Business (College Transfer)	3	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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

BUS	115	Business Law I (College Transfer)	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course introduces the ethics and legal framework of business. Emphasis is placed on contracts, negotiable instruments, Uniform Commercial Code, and the working of the court systems. Upon completion, students should be able to apply ethical issues and laws covered to selected business decision-making situations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

BUS	137	Principles of Management	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course is designed to be an overview of the major functions of management. Emphasis is placed on planning, organizing, controlling, directing and communicating. Upon completion, students should be able to work as contributing members of a team utilizing these functions of management. *This course has been approved to satisfy*

the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).

BUS 153 Human Resource Management 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces the functions of personnel/human resource management within an organization. Topics include equal opportunity and the legal environment, recruitment and selection, performance appraisal, employee development, compensation planning, and employee relations. Upon completion, students should be able to anticipate and resolve human resource concerns. *This course is also available through the Virtual Learning Community (VLC).*

BUS 225 Business Finance 2 2 3
 Prerequisites: ACC 120
 Corequisites: None

This course provides an overview of business financial management. Emphasis is placed on financial statement analysis, time value of money, management of cash flow, risk and return, and sources of financing. Upon completion, students should be able to interpret and apply the principles of financial management. *This course is also available through the Virtual Learning Community (VLC).*

BUS 230 Small Business Management 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces the challenges of entrepreneurship including the startup and operation of a small business. Topics include market research techniques, feasibility studies, site analysis, financing alternatives, and managerial decision making. Upon completion, students should be able to develop a small business plan. *This course is also available through the Virtual Learning Community (VLC).*

BUS 260 Business Communication 3 0 3
 Prerequisites: ENG 111 and OST 131 or OST 080
 Corequisites: None

This course is designed to develop skills in writing business communications. Emphasis is placed on business reports, correspondence, and professional presentations. Upon completion, students should be able to communicate effectively in the work place. *This course is also available through the Virtual Learning Community (VLC).*

CHM - Chemistry

CHM 092 Fundamentals of Chemistry 3 2 4
 Prerequisites: None
 Corequisites: None

This course covers fundamentals of chemistry with laboratory applications. Topics include measurements, matter, energy, atomic theory, bonding, molecular structure, nomenclature, balancing equations, stoichiometry, solutions, acids and bases, gases, and basic organic chemistry. Upon completion, students should be able to understand and apply basic chemical concepts and demonstrate basic laboratory skills necessary for success in college-level science courses.

CHM 131 Introduction to Chemistry (College Transfer) 3 0 3

Prerequisites: None

Corequisites: None

This course introduces the fundamental concepts of inorganic chemistry. Topics include measurement, matter and energy, atomic and molecular structure, nuclear chemistry, stoichiometry, chemical formulas and reactions, chemical bonding, gas laws, solutions, and acids and bases. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).*

CHM 131A Introduction to Chemistry Lab (College Transfer) 0 3 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CHM 132 Organic and Biochemistry (College Transfer) 3 3 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).*

CHM 135 Survey of Chemistry I (College Transfer) 3 2 4

Prerequisites: None

Corequisites: None

This course provides an introduction to inorganic chemistry. Emphasis is placed on measurement, atomic structure, bonding, molecular geometry, nomenclature, reac-

tions, the mole concept, stoichiometric calculations, states of matter, and the gas laws. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CHM 136 Survey of Chemistry II (College Transfer) 3 2 4

Prerequisites: CHM 135

Corequisites: None

This course is a continuation of CHM 135 with further study of inorganic reactions and an introduction to organic, biological, and nuclear chemistry. Topics include solutions, acid-base theory, redox reactions, chemical kinetics, organic chemistry, biochemistry, and nuclear chemistry. Upon completion, students should be able to demonstrate a basic understanding of chemistry as it applies to other fields. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CHM 151 General Chemistry I (College Transfer) 3 3 4

Prerequisites: None

Corequisites: None

This course covers fundamental principles and laws of chemistry. Topics include measurement, atomic and molecular structure, periodicity, chemical reactions, chemical bonding, stoichiometry, thermochemistry, gas laws, and solutions. Upon completion, students should be able to demonstrate an understanding of fundamental chemical laws and concepts as needed in CHM 152. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CHM 152 General Chemistry II (College Transfer) 3 3 4

Prerequisites: CHM 151

Corequisites: None

This course provides a continuation of the study of the fundamental principles and laws of chemistry. Topics include kinetics, equilibrium, ionic and redox equations, acid-base theory, electrochemistry, thermodynamics, introduction to nuclear and organic chemistry, and complex ions. Upon completion, students should be able to demonstrate an understanding of chemical concepts as needed to pursue further study in chemistry and related professional fields. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

CIS - Information Systems

CIS 110 Introduction to Computers (College Transfer) 2 2 3

Prerequisites: OST 080 or OST 131 or demonstrated proficiency

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 to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics (Quantitative Option). This course is also available through the Virtual Learning Community (VLC).*

CIS 111 Basic PC Literacy 1 2 2
 Prerequisites: None
 Corequisites: None

This course provides an overview of computer concepts. Emphasis is placed on the use of personal computers and software applications for personal and fundamental workplace use. Upon completion, students should be able to demonstrate basic personal computer skills. *This course is also available through the Virtual Learning Community (VLC).*

CIS 113 Computer Basics 0 2 1
 Prerequisites: None
 Corequisites: None

This course introduces basic computer usage for non-computer majors. Emphasis is placed on developing basic personal computer skills. Upon completion, students should be able to demonstrate competence in basic computer applications. *This course is also available through the Virtual Learning Community (VLC).*

CIS 115 Intro to Prog & Logic (College Transfer) 2 2 3
 Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175
 Corequisites: None

This course introduces computer programming and problem solving in a structured program logic environment. Topics include language syntax, data types, program organization, problem solving methods, algorithm design, and logic control structures. Upon completion, students should be able to manage files with operating system commands, use top-down algorithm design, and implement algorithmic solutions in a programming language. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics (Quantitative Option). This course is also available through the Virtual Learning Community (VLC).*

CJC - Criminal Justice

CJC 100 Basic Law Enforcement Trn 9 30 19
 Prerequisites: None
 Corequisites: None

This course covers the basic skills and knowledge needed for entry-level employment

as a law enforcement officer in North Carolina. Topics are divided into general units of study: legal, patrol duties, law enforcement communications, investigations, practical application and sheriff-specific. Upon successful completion, the student will be able to demonstrate competence in topics and areas required for the state comprehensive certification examination. *This is a certificate-level course.*

CJC 111 Intro to Criminal Justice (College Transfer) 3 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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

CJC 112 Criminology 3 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. *This course is also available through the Virtual Learning Community (VLC).*

CJC 113 Juvenile Justice 3 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. *This course is also available through the Virtual Learning Community (VLC).*

CJC 121 Law Enforcement Operations (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course introduces fundamental law enforcement operations. Topics include the contemporary evolution of law enforcement operations and related issues. Upon completion, students should be able to explain theories, practices, and issues related to law enforcement operations. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

CJC 131 Criminal Law 3 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. *This course is also available through the Virtual Learning Community (VLC).*

CJC 132 Court Procedure & Evidence 3 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. *This course is also available through the Virtual Learning Community (VLC).*

CJC 141 Corrections (College Transfer) 3 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

CJC 212 Ethics & Comm Relations 3 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. *This course is also available through the Virtual Learning Community (VLC).*

CJC 221 Investigative Principles 3 2 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. *This course is also available through the Virtual Learning Community (VLC).*

CJC 222 Criminalistics 3 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.

CJC 223 Organized Crime 3 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.

CJC 231 Constitutional Law 3 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. *This course is also available through the Virtual Learning Community (VLC).*

CJC 233 Correctional Law 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces statutory/case law pertinent to correctional concepts, facilities, and related practices. Topics include examination of major legal issues

encompassing incarceration, probation, parole, restitution, pardon, restoration of rights, and other related topics. Upon completion, students should be able to identify/discuss legal issues which directly affect correctional systems and personnel.

COE - Cooperative Education

COE 110	World of Work	1	0	1
Prerequisites:	None			
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.

COE 111	Co-op Work Experience I	0	10	1
COE 112	Co-op Work Experience I	0	20	2
COE 113	Co-op Work Experience I	0	30	3
COE 114	Co-op Work Experience I	0	40	4
Prerequisites:	Advisor, Department Head, and Co-Op Coordinator approval			
Corequisites:	None			

These courses provide work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

COE 121	Co-op Work Experience II	0	10	1
COE 122	Co-op Work Experience II	0	20	2
COE 123	Co-op Work Experience II	0	30	3
COE 124	Co-op Work Experience II	0	40	4
Prerequisites:	Advisor, Department Head, and Co-Op Coordinator Approval			
Corequisites:	None			

These courses provide work experience with a college approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

COE 131	Co-op Work Experience III	0	10	1
COE 132	Co-op Work Experience III	0	20	2
COE 133	Co-op Work Experience III	0	30	3
COE 134	Co-op Work Experience III	0	40	4
Prerequisites:	Advisor, Department Head, and Co-Op Coordinator approval			
Corequisites:	None			

These courses provide work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

COE	211	Co-op Work Experience IV	0	10	1
COE	212	Co-op Work Experience IV	0	20	2
COE	213	Co-op Work Experience IV	0	30	3
COE	214	Co-op Work Experience IV	0	40	4
Prerequisites:		Advisor, Department Head, and Co-op Coordinator approval			
Corequisites:		None			

These courses provide work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

COE	221	Co-op Work Experience V	0	10	1
COE	222	Co-op Work Experience V	0	20	2
COE	223	Co-op Work Experience V	0	30	3
COE	224	Co-op Work Experience V	0	40	4
Prerequisites:		Advisor, Department Head, and Co-op Coordinator approval			
Corequisites:		None			

These courses provide work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

COE	231	Co-op Work Experience VI	0	10	1
COE	232	Co-op Work Experience VI	0	20	2
COE	233	Co-op Work Experience VI	0	30	3
COE	234	Co-op Work Experience VI	0	40	4
Prerequisites:		Advisor, Department Head, and Co-op Coordinator approval			
Corequisites:		None			

These courses provide work experience with a college-approved employer in an area related to the student's program of study. Emphasis is placed on integrating classroom learning with related work experience. Upon completion, students should be able to evaluate career selection, demonstrate employability skills, and satisfactorily perform work-related competencies.

COOPERATIVE EDUCATION PROGRAM

Cooperative Education is an academic program that integrates classroom studies with practical experience in business, industry, public and community agency work situations. The work experience constitutes a regular and essential element in the educational process by allowing students to apply their studies in real work environment.

The Co-Op work experience is concurrent studies, may be paid or unpaid, and awards students academic credit. For many James Sprunt Community College students, co-op may provide an extra means of financial support.

Eligibility - Students are accepted from various programs of Study at JSCC, provided they meet the following general criteria:

1. Possess the skills to be a credible employee.
2. Be a minimum of 17 years of age
3. Be enrolled in an appropriate program and be in good academic standing.
4. Maintain GPA of 2.0 or better in program courses.

NOTE: Enrollment in the Co-Op program does not guarantee placement for every student. Final selection is the responsibility of the employer.

Students may qualify to receive academic credit if they are already employed and meet the following criteria:

1. Students must be acquiring significant new skills or knowledge related to their academic field of study, and/or
2. Students must be developing recently-learned skills or applying recently-learned knowledge related to their academic fields of study, and/or
3. Students must be receiving increased levels of responsibility related to their academic field of study, and/or
4. Employers must agree to assist with evaluations of their individual student's progress.

For more information on how to participate as a Co-Op student or a Co-Op employer, contact the Cooperative Education Coordinator at JSCC, 910 296-1974.

COM - Speech/Communication

COM	231	Public Speaking (College Transfer)	3	0	3
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Prerequisites: None

Corequisites: None

This course provides instruction and experience in preparation and delivery of speeches within a public setting and group discussion. Emphasis is placed on research, preparation, delivery, and evaluation of informative, persuasive, and special occasion public speaking. Upon completion, students should be able to prepare and deliver well-organized speeches and participate in group discussion with appropriate audiovisual support. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts (substitute). This course is also available through the Virtual Learning Community (VLC).*

COS - Cosmetology

COS	111	Cosmetology Concepts I	4	0	4
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Prerequisites: None

Corequisites: COS 112

This course introduces basic cosmetology concepts. Topics include safety, first aid, sanitation, bacteriology, anatomy, diseases and disorders, hygiene, product knowledge, chemistry, ethics, manicures, and other related topics. Upon completion, students should be able to safely and competently apply cosmetology concepts in the salon setting.

COS 112 Salon I 0 24 8
 Prerequisites: None
 Corequisites: COS 111

This course introduces basic salon services. Topics include scalp treatments, shampooing, rinsing, hair color, design, haircutting, permanent waving, pressing, relaxing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate salon services.

COS 113 Cosmetology Concepts II 4 0 4
 Prerequisites: None
 Corequisites: COS 114

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, chemistry, manicuring, chemical restructuring, and hair coloring. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

COS 114 Salon II 0 24 8
 Prerequisites: None
 Corequisites: COS 113

This course provides experience in a simulated salon setting. Topics include basic skin care, manicuring, nail application, scalp treatments, shampooing, rinsing, hair color, design, haircutting, chemical restructuring, pressing, wigs, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

COS 115 Cosmetology Concepts III 4 0 4
 Prerequisites: None
 Corequisites: COS 116

This course covers more comprehensive cosmetology concepts. Topics include safety, product knowledge, salon management, salesmanship, skin care, electricity/light therapy, wigs, thermal hair styling, lash and brow tinting, superfluous hair removal, and other related topics. Upon completion, students should be able to safely and competently apply these cosmetology concepts in the salon setting.

COS 116 Salon III 0 12 4
 Prerequisites: None
 Corequisites: COS 115

This course provides comprehensive experience in a simulated salon setting. Emphasis is placed on intermediate-level of skin care, manicuring, scalp treatments, shampooing, hair color, design, haircutting, chemical restructuring, pressing, and other related topics. Upon completion, students should be able to safely and competently demonstrate these salon services.

COS 117 Cosmetology Concepts IV 2 0 2
 Prerequisites: None
 Corequisites: COS 118

This course covers advanced cosmetology concepts. Topics include chemistry and

hair structure, advanced cutting and design, and an overview of all cosmetology concepts in preparation for the licensing examination. Upon completion, students should be able to demonstrate an understanding of these cosmetology concepts and meet program completion requirements.

COS 118 Salon IV 0 21 7
 Prerequisites: None
 Corequisites: COS 117

This course provides advanced experience in a simulated salon setting. Emphasis is placed on efficient and competent delivery of all salon services in preparation for the licensing examination and employment. Upon completion, students should be able to demonstrate competence in program requirements and the areas covered on the Cosmetology Licensing Examination and meet entry-level employment requirements.

COS 119 Esthetics Concepts I 2 0 2
 Prerequisites: None
 Corequisites: None

This course covers the concepts of esthetics. Topics include orientation, anatomy, physiology, hygiene, sterilization, first aid, chemistry, basic dermatology, and professional ethics. Upon completion, students should be able to demonstrate an understanding of the concepts of esthetics and meet course requirements.

COS 121 Manicure/Nail Technology I 4 6 6
 Prerequisites: None
 Corequisites: None

This course covers techniques of nail technology, hand and arm massage, and recognition of nail diseases and disorders. Topics include OSHA/safety, sanitation, bacteriology, product knowledge, salesmanship, manicures, artificial applications, pedicures, massage, and other related topics. Upon completion, students should be able to safely and competently perform nail care, including manicures, pedicures, massage, decorating, and artificial applications in a salon setting.

COS 223 Contemporary Hair Coloring 1 3 2
 Prerequisites: COS 111 and COS 112
 Corequisites: None

This course covers basic color concepts, hair coloring problems, and application techniques. Topics include color theory, terminology, contemporary techniques, product knowledge, and other related topics. Upon completion, students should be able to identify a client's color needs and safely and competently perform color applications and correct problems.

COS 224 Trichology and Chemistry 1 3 2
 Prerequisites: None
 Corequisites: None

This course is a study of hair and the interaction of applied chemicals. Emphasis is placed on pH actions and the reactions and effects of chemical ingredients. Upon completion, students should be able to demonstrate an understanding of chemical terminology, pH testing, and chemical reactions on hair.

COS 240 Contemporary Design 1 3 2
 Prerequisites: COS 111 and COS 112
 Corequisites: None

This course covers methods and techniques for contemporary designs. Emphasis is placed on contemporary designs and other related topics. Upon completion, students should be able to demonstrate and apply techniques associated with contemporary design.

COS 260 Design Applications 1 3 2
 Prerequisites: None
 Corequisites: None

This course provides an overview of the design concepts used in cosmetology. Topics include the application of art principles and elements to artistically design hair, nails, and make-up and other related topics. Upon completion, students should be able to demonstrate knowledge and techniques associated with design concepts.

COS 271 Instructor Concepts I 5 0 5
 Prerequisites: None
 Corequisites: COS 272

This course introduces the basic cosmetology instructional concepts. Topics include orientation, theories of education, unit planning, daily lesson planning, laboratory management, student assessment, record keeping, and other related topics. Upon completion, students should be able to identify theories of education, develop lesson plans, demonstrate supervisory techniques, and assess student performance in a classroom setting.

COS 272 Instructor Practicum I 0 21 7
 Prerequisites: None
 Corequisites: COS 271

This course covers supervisory and instructional skills for teaching entry-level cosmetology students in a laboratory setting. Topics include demonstrations of services, supervision, and entry-level student assessment. Upon completion, students should be able to demonstrate salon services and instruct and objectively assess the entry-level student.

COS 273 Instructor Concepts II 5 0 5
 Prerequisites: COS 271 and COS 272
 Corequisites: COS 274

This course covers advanced cosmetology instructional concepts. Topics include practical demonstrations, lesson planning, lecture techniques, development and administration of assessment tools, record keeping, and other related topics. Upon completion, students should be able to develop lesson plans, demonstrate supervision techniques, assess student performance in a classroom setting, and keep accurate records.

COS 274 Instructor Practicum II 0 21 7
 Prerequisites: COS 271 and COS 272
 Corequisites: COS 273

This course is designed to develop supervisory and instructional skills for teaching advanced cosmetology students in a laboratory setting. Topics include practical demonstrations, supervision, and advanced student assessment. Upon completion, students should be able to demonstrate competence in the areas covered by the Instructor Licensing Examination and meet program completion requirements.

CTS - Computer Information Technology

CTS 120 Hardware/Software Support 2 3 3
 Prerequisites: CIS 110 or CIS 111
 Corequisites: None

This course covers the basic hardware of a personal computer, including installation, operations and interactions with software. Topics include component identification, memory-system, peripheral installation and configuration, preventive maintenance, hardware diagnostics/repair, installation and optimization of system software, commercial programs, system configuration, and device-drivers. Upon completion, students should be able to select appropriate computer equipment and software, upgrade/maintain existing equipment and software, and troubleshoot/repair non-functioning personal computers.

CTS 125 Presentation Graphics 2 2 3
 Prerequisites: CIS 110 or CIS 111
 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.

CTS 130 Spreadsheet 2 2 3
 Prerequisites: CIS 110 or CIS 111 or OST 137
 Corequisites: None

This course introduces basic spreadsheet design and development. Topics include writing formulas, using functions, enhancing spreadsheets, creating charts, and printing. Upon completion, students should be able to design and print basic spreadsheets and charts.

CTS 135 Integrated Software Intro 2 4 4
 Prerequisites: CIS 110 or CIS 111
 Corequisites: None

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

CTS	230	Advanced Spreadsheet	2	2	3
Prerequisites:	CTS 130				
Corequisites:	None				

This course covers advanced spreadsheet design and development. Topics include advanced functions and statistics, charting, macros, databases, and linking. Upon completion, students should be able to demonstrate competence in designing complex spreadsheets.

CTS	285	Systems Analysis & Design	3	0	3
Prerequisites:	CIS 115				
Corequisites:	None				

This course introduces established and evolving methodologies for the analysis, design, and development of an information system. Emphasis is placed on system characteristics, managing projects, prototyping, CASE/OOM tools, and systems development life cycle phases. Upon completion, students should be able to analyze a problem and design an appropriate solution using a combination of tools and techniques.

CTS	287	Emerging Technologies	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course introduces emerging information technologies. Emphasis is placed on evolving technologies and trends in business and industry. Upon completion, students should be able to articulate an understanding of the current trends and issues in emerging technologies for information systems.

CTS	289	System Support Project	1	4	3
Prerequisites:	CTS 285				
Corequisites:	None				

This course provides an opportunity to complete a significant support project with minimal instructor assistance. Emphasis is placed on written and oral communication skills, project definition, documentation, installation, testing, presentation, and user training. Upon completion, students should be able to complete a project from the definition phase through implementation.

DBA - Database Management Technology

DBA	110	Database Concepts	2	3	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.

DBA	115	Database Applications	2	2	3
Prerequisites:	DBA 110				
Corequisites:	None				

This course applies concepts learned in DBA 110 to a specific DBMS. Topics include manipulating multiple tables, advanced queries, screens and reports, linking, and command files. Upon completion, students should be able to create multiple table systems that demonstrate updates, screens, and reports representative of industry requirements.

DES - Design: Creative

DES	115	Color Theory	2	2	3
Prerequisites:	None				
Corequisites:	None				

This course introduces the element of color as a major design factor. Emphasis is placed on the physical, psychological, and other implications of color in design. Upon completion, students should be able to demonstrate knowledge of color and its effects on the human environment.

DRA - Drama/Theatre

DRA	111	Theatre Appreciation (College Transfer)	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course provides a study of the art, craft, and business of the theatre. Emphasis is placed on the audience's appreciation of the work of the playwright, director, actor, designer, producer, and critic. Upon completion, students should be able to demonstrate a vocabulary of theatre terms and to recognize the contributions of various theatre artists. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

DRA	112	Literature of the Theatre (College Transfer)	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course provides a survey of dramatic works from the classical Greek through the present. Emphasis is placed on the language of drama, critical theory, and background as well as on play reading and analysis. Upon completion, students should be able to articulate, orally and in writing, their appreciation and understanding of dramatic works. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

ECO - Economics

ECO	151	Survey of Economics (College Transfer)	3	0	3
Prerequisites:		None			
Corequisites:		None			

This course introduces basic concepts of micro- and macroeconomics. Topics include supply and demand, optimizing economic behavior, prices and wages, money, interest rates, banking system, unemployment, inflation, taxes, government spending, and international trade. Upon completion, students should be able to explain alternative solutions for economic problems faced by private and government sectors. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

ECO	251	Prin of Microeconomics (College Transfer)	3	0	3
Prerequisites:		None			
Corequisites:		None			

This course introduces economic analysis of individual, business, and industry choices in the market economy. Topics include the price mechanism, supply and demand, optimizing economic behavior, costs and revenue, market structures, factor markets, income distribution, market failure, and government intervention. Upon completion, students should be able to identify and evaluate consumer and business alternatives in order to efficiently achieve economic objectives. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

ECO	252	Prin of Macroeconomics (College Transfer)	3	0	3
Prerequisites:		None			
Corequisites:		None			

This course introduces economic analysis of aggregate employment, income, and prices. Topics include major schools of economic thought; aggregate supply and demand; economic measures, fluctuations, and growth; money and banking; stabilization techniques; and international trade. Upon completion, students should be able to evaluate national economic components, conditions, and alternatives for achieving socioeconomic goals. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

EDU - Education

EDU	118	Teach Assoc Princ & Prac	3	0	3
Prerequisites:		None			
Corequisites:		None			

This course covers the teacher associate's role in the educational system. Topics include history of education, professional responsibilities and ethics, cultural diversity, communication skills, and identification of the optimal learning environment. Upon completion, students should be able to describe the supporting professional role of the teacher associate, demonstrate positive communication, and discuss educational philosophy. *This course is a unique concentration requirement in the Teacher Associate concentration in the Early Childhood Education program.*

EDU 119 Intro to Early Child Education 4 0 4
 Prerequisites: None
 Corequisites: None

This course covers the foundations of the education profession, the diverse educational settings for young children, professionalism and planning developmentally appropriate programs for children. Topics include historical foundations, program types, career options, professionalism, and creating inclusive environments and curriculum that are responsive to the needs of children and families. Upon completion, students should be able to design career plans and develop appropriate schedules, environments and activity plans while incorporating adaptations for children with exceptionalities. *This course is also available through the Virtual Learning Community (VLC).*

EDU 131 Child, Family, & Community 3 0 3
 Prerequisites: None
 Corequisites: None

This course covers the development of partnerships between families, inclusive programs for children/schools that serve young children with and without disabilities and the community. Emphasis is placed on requisite skills and benefits for successfully establishing, supporting, and maintaining respectful collaborative relationships between today's diverse families, centers/schools, and community resources. Upon completion, students should be able to describe appropriate relationships with parents/caretakers, center/school colleagues, and community agencies that enhance the educational experience/well-being of all children. *This course is also available through the Virtual Learning Community (VLC).*

EDU 144 Child Development I 3 0 3
 Prerequisites: None
 Corequisites: None

This course covers the theories of child development, developmental sequences, and factors that influence children's development, from conception through the pre-school years for all children. Emphasis is placed on sequences in physical/motor, social, emotional, cognitive, and language development and multiple influences on development and learning of the whole child. Upon completion, students should be able to identify typical and atypical developmental characteristics, plan experiences to enhance development, and describe appropriate interaction techniques and environments. *This course is also available through the Virtual Learning Community (VLC).*

EDU 145 Child Development II 3 0 3
 Prerequisites: None
 Corequisites: None

This course covers theories of child development, developmental sequences, and factors that influence children's development, from pre-school through middle childhood for all children. Emphasis is placed on sequences in physical/motor, social, emotional, cognitive, and language development multiple influences on development and learning of the whole child. Upon completion, students should be able to identify typical and atypical developmental characteristics, plan experiences to enhance development, and describe appropriate interaction techniques and environments. *This course is also available through the Virtual Learning Community (VLC).*

EDU 146 Child Guidance 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces practical principles and techniques for providing developmentally appropriate guidance for all children with and without disabilities, including those at risk. Emphasis is placed on encouraging self-esteem, cultural awareness, effective communication skills, direct /indirect techniques/strategies and observation to understand the underlying causes of behavior. Upon completion, students should be able to demonstrate appropriate interactions with children and families and promote conflict resolution, self-control, self-motivation, and self-esteem in children. *This course is also available through the Virtual Learning Community (VLC).*

EDU 151 Creative Activities 3 0 3
 Prerequisites: None
 Corequisites: None

This course covers planning and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and physical skills, and dramatics. Upon completion, students should be able to create, manage, adapt and evaluate developmentally supportive learning materials, experiences and environments. *This course is also available through the Virtual Learning Community (VLC).*

EDU 151A Creative Activities Lab 0 2 1
 Prerequisites: None
 Corequisites: EDU 151

This course provides a laboratory component to complement EDU 151. Emphasis is placed on practical experiences that enhance concepts introduced in the classroom. Upon completion, students should be able to demonstrate a practical understanding of the development and implementation of appropriate creative activities.

EDU 153 Health, Safety, & Nutrit 3 0 3
 Prerequisites: None
 Corequisites: None

This course focuses on promoting and maintaining the health and well-being of all children. Topics include health and nutritional guidelines, common childhood illnesses, maintaining safe and healthy learning environments, recognition and reporting of abuse and neglect and state regulations.. Upon completion, students should be able

to demonstrate knowledge of health, safety, and nutritional needs, implement safe learning environments, and adhere to state regulations. *This course is also available through the Virtual Learning Community (VLC).*

EDU 153A Health, Safety, & Nutrit Lab 0 2 1
 Prerequisites: None
 Corequisites: EDU 153

This course provides a laboratory component to complement EDU 153. Emphasis is placed on practical experiences that enhance concepts introduced in the classroom. Upon completion, students should be able to demonstrate a practical understanding of the development and implementation of safe indoor/outdoor environments and nutrition education programs.

EDU 186 Reading & Writing Methods 3 0 3
 Prerequisites: None
 Corequisites: None

This course covers concepts, resources, and methods for teaching reading and writing to school-age children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches, and instructional strategies. Upon completion, students should be able to assess, plan, implement, and evaluate developmentally appropriate reading and writing experiences. *This course is a unique concentration requirement in the Teacher Associate concentration in the Early Childhood Education program. This course is also available through the Virtual Learning Community (VLC).*

EDU 216 Foundations in Education (College Transfer) 3 2 4
 Prerequisites: None
 Corequisites: None

This course introduces the American educational system and the teaching profession. Topics include historical and philosophical foundations of education, contemporary educational, structural, legal, and financial issues, PRAXIS I preparation and observation and participation in public school classrooms. Upon completion, students should be able to relate classroom observations to the roles of teachers and schools and the process of teacher education. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

EDU 221 Children with Exceptional 3 0 3
 Prerequisites: EDU 144 and EDU 145 or PSY 244 and PSY 245
 Corequisites: None

This course, based on the foundation of typical development, introduces working with children with exceptionalities. Emphasis is placed on the characteristics and assessment of children and strategies for adapting the learning environment. Upon completion, students should be able to recognize atypical development, make appropriate referrals, collaborate with families and professionals to plan, implement, and evaluate inclusion strategies. *This course has been approved to satisfy the*

Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement at select institutions only. This course is also available through the Virtual Learning Community (VLC).

EDU 234 Infants, Toddlers, & Twos 3 0 3
 Prerequisites: None
 Corequisites: None

This course covers the skills needed to effectively implement group care for infants, toddlers, and two-year olds. Emphasis is placed on child development and developmentally appropriate practices. Upon completion, students should be able to identify, plan, select materials and equipment, and implement and evaluate a developmentally appropriate curriculum.

EDU 235 School-Age Dev & Program 2 0 2
 Prerequisites: None
 Corequisites: None

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

EDU 259 Curriculum Planning 3 0 3
 Prerequisites: EDU 112 or EDU 113 or EDU 119
 Corequisites: None

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

EDU 261 Early Childhood Admin I 3 0 3
 Prerequisites: None
 Corequisites: None

This course covers the policies, procedures, and responsibilities for the management of early childhood education programs. Topics include implementation of goals, principles of supervision, budgeting and financial management, and meeting the standards for a NC Child Day Care license. Upon completion, students should be able to develop program goals, explain licensing standards, determine budgeting needs, and describe effective methods of personnel supervision. *This course is also available through the Virtual Learning Community (VLC).*

EDU 262 Early Childhood Admin II 3 0 3
 Prerequisites: EDU 261
 Corequisites: None

This course provides a foundation for budgetary, financial and personnel management of the child care center. Topics include budgeting, financial management,

marketing, hiring, supervision, and professional development of a child care center. Upon completion, students should be able to formulate marketing, financial management, and fund development plans and develop personnel policies, including supervision and staff development plans. *This course is also available through the Virtual Learning Community (VLC).*

EDU 263 Dev School-Age Prog 2 0 2
 Prerequisites: None
 Corequisites: None

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

EDU 271 Educational Technology 2 2 3
 Prerequisites: None
 Corequisites: None

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

EDU 275 Effective Teach Training 2 0 2
 Prerequisites: None
 Corequisites: None

This course provides specialized training using an experienced-based approach to learning. Topics include instructional preparation and presentation, student interaction, time management, learning expectations, evaluation, and curriculum principles and planning. Upon completion, students should be able to prepare and present a six-step lesson plan and demonstrate ways to improve students' time-on-task.

EDU 280 Language & Literacy Exp 3 0 3
 Prerequisites: None
 Corequisites: None

This course explores the continuum of children's communication development, including verbal and written language acquisition and other forms of communication. Topics include selection of literature and other media, the integration of literacy concepts throughout the classroom environment, inclusive practices and appropriate assessments. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate literacy experiences. *This course is also available through the Virtual Learning Community (VLC).*

EDU 285 Internship Exp-School Age 1 0 1
 Prerequisites: ENG 111
 Corequisites: COE 121 or COE 122

This course provides an opportunity to discuss internship experiences with peers and faculty. Emphasis is placed on evaluating and integrating practicum experiences. Upon completion, students should be able to demonstrate competence in early childhood education. *This course is a unique concentration requirement in the Teacher Associate concentration in the Early Childhood Education program.*

EDU 286 Early Childhood Issues 1 0 1
 Prerequisites: ENG 111
 Corequisites: COE 111 or COE 121

This course provides an opportunity to discuss the application of skills in a developmentally appropriate early childhood environment. Emphasis is placed on developing strategies for reaching competency goals and objectives and on planning and developing curriculum. Upon completion, students should be able to demonstrate competence in classroom management skills and in developing, implementing, and evaluating curriculum plans.

EFL - English as a Foreign Language

EFL 061 Listening/Speaking I 5 0 5
 Prerequisites: None
 Corequisites: None

This course is designed to provide the non-English speaking person with basic language skills for essential daily conversation in an academic setting. Emphasis is placed on basic listening and speaking skills. Upon completion, students should be able to carry on simple conversations and understand common patterns of speech.

EFL 062 Listening/Speaking II 5 0 5
 Prerequisites: EFL 061
 Corequisites: None

This course is designed to enhance intermediate listening and speaking skills of non-native speakers of English. Emphasis is placed on the ability to hold extended conversation and on the ability to understand extended spoken discourse. Upon completion, students should be able to demonstrate improved listening skills and strategies in a variety of settings.

EFL 063 Listening/Speaking III 5 0 5
 Prerequisites: EFL 062
 Corequisites: None

This course is designed to increase the ability and confidence of high intermediate-level non-native speakers of English in verbal expression and listening comprehension. Emphasis is placed on listening and speaking skills which would be appropriate for group discussions, oral presentations, and note taking. Upon completion,

students should be able to successfully participate in high intermediate-level listening and speaking activities.

EFL 064 Listening/Speaking IV 5 0 5
Prerequisites: EFL 063
Corequisites: None

This course is designed to prepare advanced-level non-native speakers of English for academic and professional speaking and listening activities. Emphasis is placed on learning and practicing strategies of effective oral expression and comprehension of spoken discourse in informal and formal settings. Upon completion, students should be able to effectively participate in activities appropriate to academic and professional settings.

EFL 071 Reading I 5 0 5
Prerequisites: None
Corequisites: None

This course is designed to help those literacy skills needed to achieve reading fluency in English at the beginning level. Emphasis is placed on basic academic and cultural vocabulary and reading strategies, which include self-monitoring and recognizing organizational styles and context clues. Upon completion, students should be able to use the strategies to read and comprehend basic academic, narrative, and expository texts. *This course is intended for non-native speakers of English.*

EFL 072 Reading II 5 0 5
Prerequisites: EFL 071
Corequisites: None

This course provides preparation in academic and general purpose reading in order to achieve reading fluency at the low-intermediate level. Emphasis is placed on expanding academic and cultural vocabulary and developing effective reading strategies to improve comprehension and speed. Upon completion, students should be able to read and comprehend narrative and expository texts at the low-intermediate instructional level. *This course is intended for non-native speakers of English.*

EFL 073 Reading III 5 0 5
Prerequisites: EFL 072
Corequisites: None

This course is designed to develop fundamental reading and study strategies at the intermediate level needed for curriculum programs. Emphasis is placed on building vocabulary and cultural knowledge, improving comprehension, and developing study strategies on basic-level college materials and literary works. Upon completion, students should be able to read and comprehend narrative and expository texts at the intermediate instructional level. *This course is intended for non-native speakers of English.*

EFL 074 Reading IV 5 0 5
Prerequisites: EFL 073
Corequisites: None

This course is designed to enhance the academic reading skills for successful reading ability as required in college-level courses. Emphasis is placed on strategies for effective reading and the utilization of these strategies to improve comprehension, analytical skills, recall, and overall reading speed. Upon completion, students should be able to comprehend, synthesize, and critique multi-disciplinary college level reading/textbook materials. *This course is intended for non-native speakers of English.*

EFL 081 Grammar I 5 0 5
 Prerequisites: None
 Corequisites: None

This course provides non-native speakers of English with a variety of fundamental grammatical concepts which enrich language skills and comprehension. Emphasis is on key basic grammatical structures and opportunities for practice which incorporate grammatical knowledge into various skills areas. Upon completion, students should be able to demonstrate comprehension and correct usage of specified grammatical concepts.

EFL 082 Grammar II 5 0 5
 Prerequisites: EFL 081
 Corequisites: None

This course provides non-native speakers of English with a variety of basic grammatical concepts which enrich language skills and comprehension. Emphasis is on key low-intermediate grammatical structures and opportunities for practice which incorporate grammatical knowledge into various skills areas. Upon completion, students should be able to demonstrate by written and oral means the comprehension and correct usage of specified grammatical concepts.

EFL 083 Grammar III 5 0 5
 Prerequisites: EFL 082
 Corequisites: None

This course is designed to provide high-intermediate non-native speakers of English with a knowledge of grammatical structures that improves academic communication. Emphasis is placed on using high-intermediate grammatical structures in meaningful contexts through exercised integrating the use of newly acquired structures with previously learned structures. Upon completion, students should be able to demonstrate improved proficiency, comprehension, and grammatical accuracy.

EFL 084 Grammar IV 5 0 5
 Prerequisites: EFL 083
 Corequisites: None

This course is designed to give non-native speakers of English a full understanding of advanced grammatical structures and techniques. Emphasis is placed on oral and written communicative fluency through the study of advanced grammatical forms. Upon completion, students should be able to incorporate the structures covered in both spoken and written form, demonstrating improved proficiency, comprehension, and grammatical accuracy.

EFL 091 Composition I 5 0 5
 Prerequisites: None
 Corequisites: None

This course introduces basic sentence structure and writing paragraphs. Emphasis is placed on word order, verb tense-aspect system, auxiliaries, word forms, and simple organization and basic transitions in writing paragraphs. Upon completion, students should be able to demonstrate a basic understanding of grammar and ability to write English paragraphs using appropriate vocabulary, organization, and transitions. *This course is intended for non-native speakers of English.*

EFL 092 Composition II 5 0 5
 Prerequisites: EFL 091
 Corequisites: None

This course provides preparation in low-intermediate academic and general-purpose writing. Emphasis is placed on writing as a process, paragraph development, and basic essay organization. Upon completion, students should be able to write and independently edit and understand the major elements of the writing process, sentence, paragraph, and essay. *This course is intended for non-native speakers of English.*

EFL 093 Composition III 5 0 5
 Prerequisites: EFL 092
 Corequisites: None

This course covers intermediate-level academic and general-purpose writing. Emphasis is placed on the writing process, content, organization, and language use in formal academic compositions in differing rhetorical modes. Upon completion, students should be able to effectively use the writing process in a variety of rhetorical modes. *This course is intended for non-native speakers of English.*

EFL 094 Composition IV 5 0 5
 Prerequisites: EFL 093
 Corequisites: None

This course prepares low-advanced non-native speakers of English to determine the purpose of their writing and to write paragraphs and essays to fulfill that purpose. Emphasis is placed on unity, coherence, completeness, audience, and the writing process; and the grammatical forms and punctuation appropriate for each kind of writing. Upon completion, students should be able to write unified, coherent, and complete paragraphs and essays, which are grammatical and appropriate for the intended audience. *This course is intended for non-native speakers of English.*

EFL 095 Composition V 5 0 5
 Prerequisites: EFL 094
 Corequisites: None

This course is designed to prepare advanced non-native speakers of English for college-level composition courses. Emphasis is placed on the study and process of

writing formal essays and research papers and the analysis of literary, expository, and descriptive writings. Upon completion, students should be able to demonstrate ability to write and analyze professional and peer compositions and knowledge of basic research principles. *This course is intended for non-native speakers of English.*

ELC - Electricity

ELC	112	DC/AC Electricity	3	6	5
Prerequisites:	None				
Corequisites:	None				

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

ELC	113	Basic Wiring I	2	6	4
Prerequisites:	None				
Corequisites:	None				

This course introduces the care/usage of tools and materials used in electrical installations and the requirements of the National Electrical Code. Topics include NEC, electrical safety, and electrical blueprint reading; planning, layout; and installation of electrical distribution equipment; lighting; overcurrent protection; conductors; branch circuits; and conduits. Upon completion, students should be able to properly install conduits, wiring, and electrical distribution equipment associated with basic electrical installations.

ELC	114	Basic Wiring II	2	6	4
Prerequisites:	None				
Corequisites:	None				

This course provides instruction in the application of electrical tools, materials, and test equipment associated with electrical installations. Topics include the NEC; safety; electrical blueprints; planning, layout, and installation of equipment and conduits; and wiring devices such as panels and overcurrent devices. Upon completion, students should be able to properly install equipment and conduit associated with electrical installations.

ELC	115	Industrial Wiring	2	6	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.

ELC	117	Motors and Controls	2	6	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.

ELC 118 National Electrical Code 1 2 2
 Prerequisites: None
 Corequisites: None

This course covers the use of the current National Electrical Code. Topics include the NEC history, wiring methods, overcurrent protection, materials, and other related topics. Upon completion, students should be able to effectively use the NEC.

ELC 119 NEC Calculations 1 2 2
 Prerequisites: None
 Corequisites: None

This course covers branch circuit, feeder, and service calculations. Emphasis is placed on sections of the National Electrical Code related to calculations. Upon completion, students should be able to use appropriate code sections to size wire, conduit, and overcurrent devices for branch circuits, feeders, and service.

ELC 121 Electrical Estimating 1 2 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.

ELC 128 Introduction to PLC 2 3 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 install PLCs and create simple programs. *This course is also available through the Virtual Learning Community (VLC).*

ELC 132 Electrical Drawings 1 3 2
 Prerequisites: None
 Corequisites: None

This course introduces the technical documentation that is typically found or used in the industrial environment. Topics include interpretation of service manuals, freehand sketching of lines, orthographic views and dimensions, and blueprint reading. Upon completion, students should be able to interpret technical documents and blueprints and use basic drafting skills to prepare usable field drawings.

ELC	215	Electrical Maintenance	2	3	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.

ELN - Electronics

ELN	229	Industrial Electronics	3	3	4
Prerequisites:	None				
Corequisites:	None				

This course covers semiconductor devices used in industrial applications. Topics include the basic theory, application, and operating characteristics of semiconductor devices. Upon completion, students should be able to install and/or troubleshoot these devices for proper operation in an industrial electronic circuit.

ENG - English

ENG	070	Basic Language Skills	2	2	3
Prerequisites:	None				
Corequisites:	None				

This course introduces the fundamentals of standard written English. Emphasis is placed on effective word choice, recognition of sentences and sentence parts, and basic usage. Upon completion, students should be able to generate sentences that clearly express ideas. *This course does not satisfy the developmental reading and writing prerequisite for ENG 111 or ENG 111A.*

ENG	080	Writing Foundations	3	2	4
Prerequisites:	ENG 070 or ENG 075				
Corequisites:	None				

This course introduces the writing process and stresses effective sentences. Emphasis is placed on applying the conventions of written English, reflecting standard usage and mechanics in structuring a variety of sentences. Upon completion, students should be able to write correct sentences and a unified, coherent paragraph. *This course does not satisfy the developmental reading and writing prerequisite for ENG 111 or ENG 111A..*

ENG	090	Composition Strategies	3	0	3
Prerequisites:	ENG 080 or ENG 085				
Corequisites:	None				

This course provides practice in the writing process and stresses effective paragraphs. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students

should be able to compose a variety of paragraphs and a unified, coherent essay. *This course does not satisfy the developmental writing prerequisite for ENG 111 or ENG 111A.*

ENG 090A Comp Strategies Lab 0 2 1
 Prerequisites: ENG 080 or ENG 085
 Corequisites: ENG 090

This writing lab is designed to practice the skills introduced in ENG 090. Emphasis is placed on learning and applying the conventions of standard written English in developing paragraphs within the essay. Upon completion, students should be able to compose a variety of paragraphs and a unified, coherent essay.

ENG 101 Applied Communications I 3 0 3
 Prerequisites: None
 Corequisites: None

This course is designed to enhance reading and writing skills for the workplace. Emphasis is placed on technical reading, job-related vocabulary, sentence writing, punctuation, and spelling. Upon completion, students should be able to identify main ideas with supporting details and produce mechanically correct short writings appropriate to the workplace. *This is a diploma level course.*

ENG 102 Applied Communications II 3 0 3
 Prerequisites: None
 Corequisites: None

This course is designed to enhance writing and speaking skills for the workplace. Emphasis is placed on generating short writings such as job application documents, memoranda, and reports and developing interpersonal communication skills with employees and the public. Upon completion, students should be able to prepare effective, short, and job-related written and oral communications. *This is a diploma level course.*

ENG 111 Expository Writing (College Transfer) 3 0 3
 Prerequisites: ENG 090 and RED 090, or ENG 095
 Corequisites: None

This course is the required first course in a series of two designed to develop the ability to produce clear expository prose. Emphasis is placed on the writing process including audience analysis, topic selection, thesis support and development, editing, and revision. Upon completion, students should be able to produce unified, coherent, well-developed essays using standard written English. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course is also available through the Virtual Learning Community (VLC).*

ENG 111A Expository Writing Lab 0 2 1
 Prerequisites: ENG 090 and RED 090; or ENG 095
 Corequisites: ENG 111

This writing laboratory is designed to apply the skills introduced in ENG 111. Emphasis is placed on the editing and revision components of the writing process. Upon completion, students should be able to apply those skills in the production of final drafts in ENG 111.

ENG 112 Argument-Based Research (College Transfer) 3 0 3

Prerequisites: ENG 111

Corequisites: None

This course, the second in a series of two, introduces research techniques, documentation, styles, and argumentative strategies. Emphasis is placed on analyzing data and incorporating research findings into documented argumentative essays and research projects. Upon completion, students should be able to summarize, paraphrase, interpret, and synthesize information from primary and secondary sources using standard research format and style. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course is also available through the Virtual Learning Community (VLC).*

ENG 113 Literature-Based Research (College Transfer) 3 0 3

Prerequisites: ENG 111

Corequisites: None

This course, the second in a series of two, expands the concepts developed in ENG 111 by focusing on writing that involves literature-based research and documentation. Emphasis is placed on the analysis and interpretation of prose, poetry, and drama: plot, characterization, theme, cultural context, etc. Upon completion, students should be able to construct mechanically-sound documented essays and research papers that analyze and respond to literary works. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course is also available through the Virtual Learning Community (VLC).*

ENG 114 Prof Research & Reporting (College Transfer) 3 0 3

Prerequisites: ENG 111

Corequisites: None

This course, the second in a series of two, is designed to teach professional communication skills. Emphasis is placed on research, listening, critical reading and thinking, analysis, interpretation, and design used in oral and written presentations. Upon completion, students should be able to work individually and collaboratively to produce well-designed business and professional written and oral presentations. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in English composition. This course is also available through the Virtual Learning Community (VLC).*

ENG 115 Oral Communication 3 0 3

Prerequisites: None

Corequisites: None

This course introduces the basic principles of oral communication in both small group and public settings. Emphasis is placed on the components of the communication process, group decision-making, and public address. Upon completion, students should be able to demonstrate the principles of effective oral communication in small group and public settings.

ENG 125 Creative Writing I (College Transfer) 3 0 3

Prerequisites: ENG 111

Corequisites: None

This course is designed to provide students with the opportunity to practice the art of creative writing. Emphasis is placed on writing, fiction, poetry, and sketches. Upon completion, students should be able to craft and critique their own writing and critique the writing of others. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ENG 126 Creative Writing II (College Transfer) 3 0 3

Prerequisites: ENG 125

Corequisites: None

This course is designed as a workshop approach for advancing imaginative and literary skills. Emphasis is placed on the discussion of style, techniques, and challenges for first publications. Upon completion, students should be able to submit a piece of their writing for publication. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ENG 131 Introduction to Literature (College Transfer) 3 0 3

Prerequisites: ENG 111

Corequisites: ENG 112, ENG 113, or ENG 114

This course introduces the principal genres of literature. Emphasis is placed on literary terminology, devices, structure, and interpretation. Upon completion, students should be able to analyze and respond to literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

ENG 133 Introduction to the Novel (College Transfer) 3 0 3

Prerequisites: ENG 111

Corequisites: ENG 112, ENG 113, or ENG 114

This course provides intensive study of the novel as a literary form, based on close reading of representative texts. Emphasis is placed on the development and analysis of the novel. Upon completion, students should be able to interpret, analyze, and discuss the distinguishing features of the novel. *This course has been approved to*

satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.

ENG 231 American Literature I 3 0 3
(College Transfer)

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

ENG 232 American Literature II 3 0 3
(College Transfer)

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

ENG 241 British Literature I 3 0 3
(College Transfer)

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course covers selected works in British literature from its beginnings to the Romantic Period. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

ENG 242 British Literature II 3 0 3
(College Transfer)

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students

should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

**ENG 251 Western World Literature I 3 0 3
(College Transfer)**

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

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

**ENG 252 Western World Literature II 3 0 3
(College Transfer)**

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course provides a survey of selected European works from the Neoclassical 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 selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

**ENG 261 World Literature I 3 0 3
(College Transfer)**

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from their literary beginnings through the seventeenth century. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

**ENG 262 World Literature II 3 0 3
(College Transfer)**

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond

to selected works. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

ENG 271 Contemporary Literature (College Transfer) 3 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course includes a study of contemporary literature. Emphasis is placed on literary and cultural trends of selected texts. Upon completion, students should be able to interpret, analyze, and respond to the literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

ENG 272 Southern Literature (College Transfer) 3 0 3

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

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

FRE - French

FRE 111 Elementary French I (College Transfer) 3 0 3

Prerequisites: None

Corequisites: None

This course introduces the fundamental elements of the French language within a cultural context. Emphasis is placed on the development of basic listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to spoken and written French and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

FRE 112 Elementary French II (College Transfer) 3 0 3

Prerequisites: FRE 111

Corequisites: None

This course is a continuation of FRE 111 focusing on the fundamental elements of the French language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written French and demonstrate further cultural awareness. *This course*

has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

FST - Foodservice

FST 100 Intro to Foodservice 3 0 3

Prerequisites: None

Corequisites: FST 103

This course is designed to develop an understanding of the foodservice industry, its terminology, mathematics, and measurements. Emphasis is placed on employability skills, vocabulary, fractions, ratio and proportion, and percents. Upon completion, students should be able to identify career paths, convert recipes, and differentiate standard measurements. *This course is restricted to the Foodservice Technology program and is approvable for offering only at designated Department of Correction facilities.*

FST 101 Intro to Baking 1 4 3

Prerequisites: None

Corequisites: FST 103

This course introduces fundamental concepts, skills, and techniques in quantity baking. Topics include yeast and quick breads, cookies, cakes, and other baked goods. Upon completion, students should be able to prepare and evaluate baked products. *This course is restricted to the Foodservice Technology program and is approvable for offering only at designated Department of Correction facilities.*

FST 102 Basic Foodservice Skills 4 8 8

Prerequisites: None

Corequisites: FST 103

This course introduces the concepts, skills, and techniques for volume food production in an institutional setting. Emphasis is placed on development of skills in knife, tool, and equipment handling and applying principles of food preparation to produce varieties of food products. Upon completion, students should be able to demonstrate entry-level skills in a quantity foodservice operation. *This course is restricted to the Foodservice Technology program and is approvable for offering only at designated Department of Correction facilities.*

FST 103 Safety and Sanitation 2 2 3

Prerequisites: None

Corequisites: None

This course provides practical experience with the basic principles of safety and sanitation in the foodservice industry. Emphasis is placed on personal hygiene habits, safety regulations, and food handling practices (H.A.C.C.P.) that protect the health of the consumer. Upon completion, students should be able to demonstrate appropriate safety and sanitation practices required in the foodservice industry. *This course is restricted to the Foodservice Technology program and is approvable for offering only at designated Department of Correction facilities.*

GRA - Graphic Arts

GRA 255	Image Manipulation I	1	3	2
Prerequisites:	GRA 151 or GRD 151			
Corequisites:	None			

This course covers applications associated with electronic image manipulation, including color correction, color separation, special effects, and image conversion. Topics include image-capturing hardware, image-processing software, and output options. Upon completion, students should be able to utilize hardware and software to acquire, manipulate, and output images to satisfy design and production.

GRA 256	Image Manipulation II	1	3	2
Prerequisites:	GRA 255			
Corequisites:	None			

This course covers electronic color separation and its relationship to multi-color printing. Topics include color theory, separation, color matching, proofing, and output of process and spot color images. Upon completion, students should be able to use hardware and image processing software to produce color separations and proofs for various printing processes.

GRD - Graphic Design

GRD 110	Typography I	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course introduces the history and mechanics of type and its application to layout and design. Topics include typographic fundamentals, anatomy, measurements, composition, identification, and terminology. Upon completion, students should be able to demonstrate proficiency in design application, analysis, specification, and creation of typographic elements.

GRD 111	Typography II	2	2	3
Prerequisites:	GRD 110			
Corequisites:	None			

This course is a continuation of GRD 110. Emphasis is placed on solving challenging typographic problems. Upon completion, students should be able to understand and demonstrate advanced typographic applications.

GRD 121	Drawing Fundamentals I	1	3	2
Prerequisites:	None			
Corequisites:	None			

This course increases observation skills using basic drawing techniques and media in graphic design. Emphasis is placed on developing the use of graphic design principles, media applications, spatial considerations, drawing styles, and approaches. Upon completion, students should be able to show competence and proficiency in finished works.

GRD 131 Illustration I 1 3 2
 Prerequisites: ART 131, DES 125, or GRD 121
 Corequisites: None

This course introduces the application of rendering techniques to create illustrations. Emphasis is placed on controlling various media, methods, surfaces, design problems, and the appropriate media selection process. Upon completion, students should be able to produce quality illustrations from conception through finished artwork.

GRD 132 Illustration II 1 3 2
 Prerequisites: GRD 131
 Corequisites: None

This course is a continuation of GRD 131. Topics include editorial, product, fashion, and advertising illustrations. Upon completion, students should be able to demonstrate increased proficiency in creating quality illustrations from conceptualization through finished artwork.

GRD 141 Graphic Design I 2 4 4
 Prerequisites: None
 Corequisites: None

This course introduces the conceptualization process used in visual problem solving. Emphasis is placed on learning the principles of design and on the manipulation and organization of elements. Upon completion, students should be able to apply design principles and visual elements to projects.

GRD 142 Graphic Design II 2 4 4
 Prerequisites: ART 121, DES 135, or GRD 141
 Corequisites: None

This course covers the application of visual elements and design principles in advertising and graphic design. Topics include creation of various designs, such as logos, advertisements, posters, outdoor advertising, and publication design. Upon completion, students should be able to effectively apply design principles and visual elements to projects.

GRD 145 Design Applications I 0 3 1
 Prerequisites: None
 Corequisites: GRD 141

This course introduces visual problem solving. Emphasis is placed on application of design principles. Upon completion, students should be able to produce projects utilizing basic design concepts.

GRD 151 Computer Design Basics 1 4 3
 Prerequisites: None
 Corequisites: None

This course covers designing and drawing with various types of software applications for advertising and graphic design. Emphasis is placed on creative and imaginative use of space, shapes, value, texture, color, and typography to provide

effective solutions to advertising and graphic design problems. Upon completion, students should be able to use the computer as a creative tool.

GRD 152 Computer Design Tech I 1 4 3
 Prerequisites: GRD 151
 Corequisites: None

This course covers complex design problems utilizing various design and drawing software applications. Topics include the expressive use of typography, image, and organization to communicate a message. Upon completion, students should be able to use appropriate computer software to professionally present their work.

GRD 153 Computer Design Tech II 1 4 3
 Prerequisites: GRD 152
 Corequisites: None

This course covers advanced theories and practices in the field of computer design. Emphasis is placed on advanced use of color palettes, layers, and paths. Upon completion, students should be able to creatively produce designs and articulate their rationale.

GRD 241 Graphic Design III 2 4 4
 Prerequisites: DES 136 or GRD 142
 Corequisites: None

This course is an advanced exploration of various techniques and media for advertising and graphic design. Emphasis is placed on advanced concepts and solutions to complex and challenging graphic design problems. Upon completion, students should be able to demonstrate competence and professionalism in visual problem solving.

GRD 242 Graphic Design IV 2 4 4
 Prerequisites: GRD 241
 Corequisites: None

This course is a continuation of GRD 241. Emphasis is placed on using advanced media techniques, concepts, strategies, and professionalism in all aspects of design. Upon completion, students should be able to conceptualize, create, and produce designs for reproduction.

GRD 265 Digital Print Production 1 4 3
 Prerequisites: GRD 152 or GRA 152
 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.

GRD 271 Multimedia Design I 1 3 2
 Prerequisites: GRD 151 or GRA 151
 Corequisites: None

This course introduces the fundamentals of multimedia design and production for computer-related presentations. Topics include interface design, typography, storyboarding, scripting, simple animation, graphics, digital audiovideo, and copyright issues. Upon completion, students should be able to design and produce multimedia presentations.

GRD 280 Portfolio Design 2 4 4
 Prerequisites: GRD 142 and GRD 152 or GRA 152
 Corequisites: None

This course covers the organization and presentation of a design/advertising or graphic art portfolio and appropriate related materials. Emphasis is placed on development and evaluation of the portfolio, design and production of a résumé and self-promotional materials, and interview techniques. Upon completion, students should be able to prepare and professionally present an effective portfolio and related self-promotional materials.

HEA - Health

HEA 110 Personal Health/Wellness 3 0 3
(College Transfer)
 Prerequisites: None
 Corequisites: None

This course provides an introduction to basic personal health and wellness. Emphasis is placed on current health issues such as nutrition, mental health, and fitness. Upon completion, students should be able to demonstrate an understanding of the factors necessary to the maintenance of health and wellness. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).*

HEA 112 First Aid & CPR 1 2 2
(College Transfer)
 Prerequisites: None
 Corequisites: None

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

HIS - History

HIS 121 Western Civilizations I 3 0 3
(College Transfer)
 Prerequisites: None
 Corequisites: None

This course introduces western civilization from pre-history to the early modern era. Topics include ancient Greece, Rome, and Christian institutions of the Middle Ages and the emergence of national monarchies in western Europe. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early western civilization. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

HIS 122 Western Civilizations II (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course introduces western civilization from the early modern era to the present. Topics include the religious wars, the Industrial Revolution, World Wars I and II, and the Cold War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in modern western civilization. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

HIS 131 American History I (College Transfer) 3 0 3

Prerequisites: None
Co requisites: None

This course is a survey of American history from pre-history through the Civil War era. Topics include the migrations to the Americas, the colonial and revolutionary periods, the development of the Republic, and the Civil War. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early American history. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

HIS 132 American History II (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course is a survey of American history from the Civil War era to the present. Topics include industrialization, immigration, the Great Depression, the major American wars, the Cold War, and social conflict. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in American history since the Civil War. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

HIS	221	African-American Hist (College Transfer)	3	0	3
Prerequisites: None					
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. <i>This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.</i>					
HIS	222	African-American Hist I (College Transfer)	3	0	3
Prerequisites: None					
Corequisites: None					
This course covers African Americans history through the Civil War period. Topics include African origins, the nature of slavery, African-American participation in the American Revolution, abolitionism, and the emergence of a distinct African-American culture. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in early African-American history. <i>This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).</i>					
HIS	223	African-American Hist II (College Transfer)	3	0	3
Prerequisites: None					
Corequisites: None					
This course covers African Americans history from the Civil War to the present. Topics include Reconstruction, the Jim Crow era, urbanization, the Harlem Renaissance, the Civil Rights movement, and the philosophies of major African-American leaders. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in African-American history since the Civil War. <i>This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement. This course is also available through the Virtual Learning Community (VLC).</i>					
HIS	236	North Carolina History (College Transfer)	3	0	3
Prerequisites: None					
Corequisites: None					
This course is a study of geographical, political, economic, and social conditions existing in North Carolina from America's discovery to the present. Topics include native and immigrant backgrounds; colonial, antebellum, and Reconstruction periods; party politics; race relations; and the transition from an agrarian to an industrial economy. Upon completion, students should be able to analyze significant political, socioeconomic, and cultural developments in North Carolina. <i>This course has been</i>					

approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.

HUM - Humanities

HUM	101	Values in the Workplace	2	0	2
Prerequisites:	None				
Corequisites:	None				

This course is a study of the influence of human values in the workplace and of the workplace on human values. Emphasis is placed on the ways in which the workplace affects and is affected by human values. Upon completion, students should be able to demonstrate a broad-based awareness and appreciation of the inter-connectedness between human values and the world of work. *This is a diploma-level course.*

HUM	110	Technology and Society (College Transfer)	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course considers technological change from historical, artistic, and philosophical perspectives and its effect on human needs and concerns. Emphasis is placed on the causes and consequences of technological change. Upon completion, students should be able to critically evaluate the implications of technology. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

HUM	120	Cultural Studies (College Transfer)	3	0	3
Prerequisites:	None				
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 has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

HUM	121	The Nature of America (College Transfer)	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course provides an interdisciplinary survey of the American cultural, social, and political experience. Emphasis is placed on the multicultural character of American society, distinctive qualities of various regions, and the American political system. Upon completion, students should be able to analyze significant cultural, social, and political aspects of American life. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

HUM 122 Southern Culture (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course explores the major qualities that make the South a distinct region. Topics include music, politics, literature, art, religion, race relations, and the role of social class in historical and contemporary contexts. Upon completion, students should be able to identify the characteristics that distinguish Southern culture. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

HUM 140 History of Architecture (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course covers the political and religious influences upon architecture. Topics include specific historical buildings evidencing architectural advancement, with special emphasis upon modern architecture. Upon completion, students should be able to analyze and identify significant developments in architecture. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

HUM 150 American Women's Studies (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course provides an inter-disciplinary study of the history, literature, and social roles of American women from Colonial times to the present. Emphasis is placed on women's roles as reflected in American language usage, education, law, the workplace, and mainstream culture. Upon completion, students should be able to identify and analyze the roles of women as reflected in various cultural forms. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

HUM 160 Introduction to Film (College Transfer) 2 2 3

Prerequisites: None
Corequisites: None

This course introduces the fundamental elements of film artistry and production. Topics include film styles, history, and production techniques, as well as the social values reflected in film art. Upon completion, students should be able to critically analyze the elements covered in relation to selected films. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education*

core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).

HUM 211 Humanities I (College Transfer) 3 0 3
Prerequisites: ENG 111
Corequisites: None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from ancient through early modern times. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

HUM 212 Humanities II (College Transfer) 3 0 3
Prerequisites: ENG 111
Corequisites: None

This course introduces the humanities as a record in literature, music, art, history, religion, and philosophy of humankind's answers to the fundamental questions of existence. Emphasis is placed on the interconnectedness of various aspects of cultures from early modern times to the present. Upon completion, students should be able to identify significant figures and cultural contributions of the periods studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

HUM 220 Human Values and Meaning (College Transfer) 3 0 3
Prerequisites: ENG 111
Corequisites: None

This course presents some major dimensions of human experience as reflected in art, music, literature, philosophy, and history. Topics include the search for identity, the quest for knowledge, the need for love, the individual and society, and the meaning of life. Upon completion, students should be able to recognize interdisciplinary connections and distinguish between open and closed questions and between narrative and scientific models of understanding. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

JOU - Journalism

JOU 120 JOU/Theory & Production 2 2 3
Prerequisites: None
Corequisites: None

This course provides a study of basic journalistic writing and production techniques. Emphasis is placed on interviewing, drafting, editing, layout, design, and printing.

Upon completion, students should be able to demonstrate competence in the various phases of writing and producing a publication.

LAT - Latin

LAT	111	Elementary Latin I (College Transfer)	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course introduces the fundamental elements of Latin within a cultural context. Emphasis is placed on the development of basic reading and writing skills. Upon completion, students should be able to comprehend and respond with grammatical accuracy to written Latin and demonstrate cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

LAT	112	Elementary Latin II (College Transfer)	3	0	3
Prerequisites:	LAT 111				
Corequisites:	None				

This course is a continuation of LAT 111 focusing on the fundamental elements of Latin within a cultural context. Emphasis is placed on the progressive development of reading, vocabulary, and grammar skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to written Latin and demonstrate further cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

MAS - Masonry

MAS	110	Masonry I	5	15	10
Prerequisites:	None				
Corequisites:	None				

This course introduces the basic principles of construction with masonry units. Topics include history of the masonry field, safety practices, blueprint reading, and principles of laying masonry units to the line using tools, equipment, and materials. Upon completion, students should be able to demonstrate knowledge of safety practices, blueprint reading, and basic tool use; identify materials; operate machinery; and lay masonry units.

MAS	120	Masonry II	5	15	10
Prerequisites:	None				
Corequisites:	None				

This course provides practical experience in cost estimating, foundations, bonding variations, expansion joints, wall ties, building codes, and other related topics. Emphasis is placed on material estimation, layout of footing, construction of walls, reinforcements, scaffolding, insulating, and building codes. Upon completion, stu-

dents should be able to determine cost, plan sound building procedures, construct masonry projects, and apply building codes.

MAS 130	Masonry III	6	6	8
Prerequisites:	None			
Corequisites:	None			

This course provides fundamentals and skills used in masonry construction. Emphasis is placed on building chimneys, fireplaces, columns, concrete masonry, and arches; using materials economically; satisfying needs and expectations; and proper work ethics. Upon completion, students should be able to build structures covered in the course, demonstrate increased speed and accuracy, and make smooth transitions between construction stages.

MAS 140	Intro to Masonry	1	2	2
Prerequisites:	None			
Corequisites:	None			

This course introduces basic principles and practices of masonry. Topics include standard tools, materials, and practices used in basic masonry and other related topics. Upon completion, students should be able to demonstrate an understanding of masonry and be able to use basic masonry techniques.

MAT - Mathematics

MAT 050	Basic Math Skills	3	2	4
Prerequisites:	None			
Corequisites:	None			

This course is designed to strengthen basic math skills. Topics include properties, rounding, estimating, comparing, converting, and computing whole numbers, fractions, and decimals. Upon completion, students should be able to perform basic computations and solve relevant mathematical problems.

MAT 060	Essential Mathematics	3	2	4
Prerequisites:	MAT 050			
Corequisites:	None			

This course is a comprehensive study of mathematical skills which should provide a strong mathematical foundation to pursue further study. Topics include principles and applications of decimals, fractions, Percents, ratio and proportion, order of operations, geometry, measurement, and elements of algebra and statistics. Upon completion, students should be able to perform basic computations and solve relevant, multi-step mathematical problems using technology where appropriate.

MAT 070	Introductory Algebra	3	2	4
Prerequisites:	MAT 060			
Corequisites:	RED 080 or ENG 085			

This course establishes a foundation in algebraic concepts and problem solving. Topics include signed numbers, exponents, order of operations, simplifying expressions, solving linear equations and inequalities, graphing, formulas, polynomials,

factoring, and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology. *This course is also available through the Virtual Learning Community (VLC).*

MAT 080 Intermediate Algebra 3 2 4
 Prerequisites: MAT 070
 Corequisites: RED 080 or ENG 085

This course continues the study of algebraic concepts with emphasis on applications. Topics include factoring; rational expressions; rational exponents; rational, radical, and quadratic equations; systems of equations; inequalities; graphing; functions; variations; complex numbers; and elements of geometry. Upon completion, students should be able to apply the above concepts in problem solving using appropriate technology.

MAT 090 Accelerated Algebra 3 2 4
 Prerequisites: MAT 060
 Corequisites: RED 080 or ENG 085

This course covers algebraic concepts with emphasis on applications. Topics include those covered in MAT 070 and MAT 080. Upon completion, students should be able to apply algebraic concepts in problem solving using appropriate technology.

MAT 101 Applied Mathematics I 2 2 3
 Prerequisites: MAT 060, MAT 070, MAT 080, MAT 090, or MAT 095
 Corequisites: None

This course is a comprehensive review of arithmetic with basic algebra designed to meet the needs of certificate and diploma programs. Topics include arithmetic and geometric skills used in measurement, ratio and proportion, exponents and roots, applications of percent, linear equations, formulas, and statistics. Upon completion, students should be able to solve practical problems in their specific areas of study. *This course is intended for diploma programs.*

MAT 110 Mathematical Measurement 2 2 3
 Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175
 Corequisites: None

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

MAT 115 Mathematical Models 2 2 3
 Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175
 Corequisites: None

This course develops the ability to utilize mathematical skills and technology to solve

problems at a level found in non-mathematics-intensive programs. Topics include applications to percent, ratio and proportion, formulas, statistics, function notation, linear functions, probability, sampling techniques, scatter plots, and modeling. Upon completion, students should be able to solve practical problems, reason and communicate with mathematics, and work confidently, collaboratively, and independently. *This course is also available through the Virtual Learning Community (VLC).*

MAT 140 Survey of Mathematics 3 0 3
(College Transfer)

Prerequisites: MAT 070, MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175

Corequisites: None

This course provides an introduction in a non-technical setting to selected topics in mathematics. Topics may include, but are not limited to, sets, logic, probability, statistics, matrices, mathematical systems, geometry, topology, mathematics of finance, and modeling. Upon completion, students should be able to understand a variety of mathematical applications, think logically, and be able to work collaboratively and independently. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).*

MAT 141 Mathematical Concepts I 3 0 3
(College Transfer)

Prerequisites: MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 161, MAT 171, or MAT 175

Corequisites: None

This course is the first of a two-course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on sets, logic, number bases, elementary number theory, introductory algebra, measurement including metrics, and problem solving. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

MAT 142 Mathematical Concepts II 3 0 3
(College Transfer)

Prerequisites: MAT 141

Corequisites: None

This course is the second of a two-course sequence that develops a deeper understanding and appreciation of the basic concepts of mathematics. Emphasis is placed on probability, statistics, functions, introductory geometry, and mathematics of finance. Upon completion, students should be able to communicate orally and in writing these basic mathematical concepts and utilize technology as a mathematical tool. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

MAT 151 Statistics I (College Transfer) 3 0 3
 Prerequisites: MAT 080, MAT 090, MAT 095, MAT 120, MAT 121, MAT 140, MAT 161, MAT 171, or MAT 175
 Corequisites: None

This course provides a project-based approach to the study of basic probability, descriptive and inferential statistics, and decision making. Emphasis is placed on measures of central tendency and dispersion, correlation, regression, discrete and continuous probability distributions, quality control, population parameter estimation, and hypothesis testing. Upon completion, students should be able to describe important characteristics of a set of data and draw inferences about a population from sample data. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics (Quantitative Option). This course is also available through the Virtual Learning Community (VLC).*

MAT 161 College Algebra (College Transfer) 3 0 3
 Prerequisites: MAT 080, MAT 090, or MAT 095
 Corequisites: None

This course provides an integrated technological approach to algebraic topics used in problem solving. Emphasis is placed on equations and inequalities; polynomials, rational, exponential and logarithmic functions; and graphing and data analysis/modeling. Upon completion, students should be able to choose an appropriate model to fit a data set and use the model for analysis and prediction. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics for an AA degree. This course is also available through the Virtual Learning Community (VLC).*

MAT 162 College Trigonometry (College Transfer) 3 0 3
 Prerequisites: MAT 161
 Corequisites: None

This course provides an integrated technological approach to trigonometry and its applications. Topics include trigonometric ratios, right triangles, oblique triangles, trigonometric functions, graphing, vectors, and complex numbers. Upon completion, students should be able to apply the above principles of trigonometry to problem solving and communication. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics for the AA degree.*

MAT 171 Precalculus Algebra (College Transfer) 3 0 3
 Prerequisites: MAT 080, MAT 090, MAT 095, or MAT 161
 Corequisites: None

This is the first of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on equations and inequalities, functions

(linear, polynomial, rational), systems of equations and inequalities, and parametric equations. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and predictions. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

MAT 172 Precalculus Trigonometry 3 0 3
(College Transfer)
 Prerequisites: MAT 171
 Corequisites: None

This is the second of two courses designed to emphasize topics which are fundamental to the study of calculus. Emphasis is placed on properties and applications of transcendental functions and their graphs, right and oblique triangle trigonometry, conic sections, and vectors and polar coordinates. Upon completion, students should be able to solve practical problems and use appropriate models for analysis and prediction. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

MAT 263 Brief Calculus 3 0 3
(College Transfer)
 Prerequisites: MAT 161, MAT 171, or MAT 175
 Corequisites: None

This course introduces concepts of differentiation and integration and their applications to solving problems; the course is designed for students needing one semester of calculus. Topics include functions, graphing, differentiation, and integration with emphasis on applications drawn from business, economics, and biological and behavioral sciences. Upon completion, students should be able to demonstrate an understanding of the use of basic calculus and technology to solve problems and to analyze and communicate results. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

MAT 271 Calculus I 3 2 4
(College Transfer)
 Prerequisites: MAT 172 or MAT 175
 Corequisites: None

This course covers in depth the differential calculus portion of a three-course calculus sequence. Topics include limits, continuity, derivatives, and integrals of algebraic and transcendental functions of one variable, with applications. Upon completion, students should be able to apply differentiation and integration techniques to algebraic and transcendental functions. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

MAT 272 Calculus II 3 2 4
(College Transfer)
 Prerequisites: MAT 271
 Corequisites: None

This course provides a rigorous treatment of integration and is the second calculus

course in a three-course sequence. Topics include applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to use integration and approximation techniques to solve application problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

MAT 273 Calculus III (College Transfer) 3 2 4

Prerequisites: MAT 272

Corequisites: None

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

MAT 285 Differential Equations (College Transfer) 3 0 3

Prerequisites: MAT 272

Corequisites: None

This course provides an introduction to ordinary differential equations with an emphasis on applications. Topics include first-order, linear higher-order, and systems of differential equations; numerical methods; series solutions; eigenvalues and eigenvectors; Laplace transforms; and Fourier series. Upon completion, students should be able to use differential equations to model physical phenomena, solve the equations, and use the solutions to analyze the phenomena. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement. This course is also available through the Virtual Learning community (VLC).*

MED - Medical Assisting

MED 110 Orientation to Med Assist 1 0 0 1

Prerequisites: None

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.

MED 112 Ori to Clinic Setting I 0 0 3 1

Prerequisites: None

Corequisites: None

This course provides an early opportunity to observe and/or perform in the medical

setting. Emphasis is placed on medical assisting procedures including appointment scheduling, filing, greeting patients, telephone techniques, billing, collections, medical records, and related medical procedures. Upon completion, students should be able to identify administrative and clinical procedures in the medical environment.

MED 118 Medical Law and Ethics 2 0 0 2
 Prerequisites: None
 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. *This course is also available through the Virtual Learning Community (VLC).*

MED 121 Medical Terminology I 3 0 0 3
 Prerequisites: None
 Corequisites: None

This course introduces prefixes, suffixes, and word roots used in the language of medicine. Topics include medical vocabulary and the terms that relate to the anatomy, physiology, pathological conditions, and treatment of selected systems. Upon completion, students should be able to pronounce, spell, and define medical terms as related to selected body systems and their pathological disorders. *This course is also available through the Virtual Learning Community (VLC).*

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. *This course is also available through the Virtual Learning Community (VLC).*

MED 130 Admin Office Proc I 1 2 0 2
 Prerequisites: None
 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.

MED 131 Admin Office Proc II 1 2 0 2
 Prerequisites: None
 Corequisites: None

This course provides medical office procedures in both economic and management skills. Topics include physical plant maintenance, equipment and supplies, liability coverage, medical economics, and introductory insurance procedures. Upon completion, students should be able to manage the economics of the medical office and supervise personnel.

MED 140 Exam Room Procedures I 3 4 0 5
 Prerequisites: None
 Corequisites: None

This course provides instruction in clinical examining room procedures. Topics include asepsis, infection control, assisting with exams and treatment, patient education, preparation and administration of medications, EKG, vital signs, and medical emergencies. Upon completion, students should be able to demonstrate competence in exam room procedures.

MED 150 Laboratory Procedures I 3 4 0 5
 Prerequisites: None
 Corequisites: None

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

MED 182 CPR First Aid & Emergency 1 2 0 2
 Prerequisites: None
 Corequisites: None

This course provides the basic knowledge and skills necessary to perform basic CPR, first aid, and medical emergency care related to the clinical, home, office, and recreational setting. Emphasis is placed on triage, assessment, and proper management of emergency care. Upon completion, students should be able to demonstrate basic CPE, first aid, and medical emergency care.

MED 230 Admin Office Proc III 1 2 0 2
 Prerequisites: 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 232 Medical Insurance Coding 1 3 0 2
 Prerequisites: None
 Corequisites: None

This course is designed to develop coding skills. Emphasis is placed on advanced diagnostic and procedural coding in the outpatient facility. Upon completion, students should be able to demonstrate proficiency in coding for reimbursement.

MED 240 Exam Room Procedures II 3 4 0 5
 Prerequisites: MED 140
 Corequisites: None

This course is designed to expand and build upon skills presented in MED 140. Emphasis is placed on advanced exam room procedures. Upon completion, students should be able to demonstrate enhanced competence in selected exam room procedures.

MED 250 Laboratory Procedures II 3 4 0 5
 Prerequisites: MED 150
 Corequisites: None

This course is designed to expand and build on skills presented in MED 150. Emphasis is placed on increasing proficiency in laboratory skills used in the medical setting. Upon completion, students should be able to demonstrate enhanced competence in selected medical laboratory procedures.

MED 260 MED Clinical Externship 0 0 15 5
 Prerequisites: None
 Corequisites: None

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

MED 262 Clinical Perspectives 1 0 0 1
 Prerequisites: None
 Corequisites: None

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

MED 272 Drug Therapy 3 0 0 3
 Prerequisites: None
 Corequisites: None

This course focuses on major drug groups, including their side effects, interactions, methods of administration, and proper documentation. Emphasis is placed on the theory of drug administration. Upon completion, students should be able to identify, spell, recognize side effects of, and document the most commonly used medications in a physician's office.

MED 276 Patient Education 1 2 0 2
 Prerequisites: None
 Corequisites: None

This course is designed to provide communication skills, basic education principles, and knowledge of available community resources and to apply this knowledge to the clinical setting. Emphasis is placed on identifying appropriate community resources, developing patient education materials, and perfecting written and oral communication skills. Upon completion, students should be able to instruct, communicate effectively, and act as a liaison between the patient and community agencies.

MKT - Marketing and Retailing

MKT 120	Principles of Marketing	3	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. *This course is also available through the Virtual Learning Community (VLC).*

MKT 123	Fundamentals of Selling	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course is designed to emphasize the necessity of selling skills in a modern business environment. Emphasis is placed on sales techniques involved in various types of selling situations. Upon completion, students should be able to demonstrate an understanding of the techniques covered. *This course is also available through the Virtual Learning Community (VLC).*

MKT 220	Advertising and Sales Promotion	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course covers the elements of advertising and sales promotion in the business environment. Topics include a study of use of advertising and sales promotion appeals, selection of media, use of advertising and sales promotion as a marketing tool, and means of testing effectiveness. Upon completion, students should be able to demonstrate an understanding of the concepts covered through application. *This course is also available through the Virtual Learning Community (VLC).*

MUS - Music

MUS 110	Music Appreciation (College Transfer)	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course is a basic survey of the music of the Western world. Emphasis is placed on the elements of music, terminology, composers, form, and style within a historical perspective. Upon completion, students should be able to demonstrate skills in basic

listening and understanding of the art of music. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

MUS 111 Fundamentals of Music (College Transfer) 3 0 3
 Prerequisites: None
 Corequisites: None

This course is an introductory course for students with little or no music background. Emphasis is placed on music notation, rhythmic patterns, scales, key signatures, intervals, and chords. Upon completion, students should be able to demonstrate an understanding of the rudiments of music. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

MUS 112 Introduction to Jazz (College Transfer) 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces the origins and musical components of jazz and the contributions of its major artists. Emphasis is placed on the development of discriminating listening habits, as well as the investigation of the styles and structural forms of the jazz idiom. Upon completion, students should be able to demonstrate skills in listening and understanding this form of American music. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

MUS 113 American Music (College Transfer) 3 0 3
 Prerequisites: None
 Corequisites: None

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

MUS 131 Chorus I 0 2 1
 Prerequisites: None
 Corequisites: None

This course provides an opportunity to gain experience singing in a chorus. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

MUS 132	Chorus II	0	2	1
Prerequisites:	MUS 131			
Corequisites:	None			

This course provides a continuation of studies begun in MUS 131. Emphasis is placed on vocal techniques and the study and performance of a variety of styles and periods of choral literature. Upon completion, students should be able to demonstrate skills needed to participate in choral singing leading to performance. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a premajor and/or elective course requirement.*

MUS 210	History of Rock Music	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course is a survey of Rock music from the early 1950's to the present. Emphasis is placed on musical groups, soloists, and styles related to the evolution of this idiom and on related historical and social events. Upon completion, students should be able to identify specific styles and to explain the influence of selected performers within their respective eras. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

NET - Networking Technology

NET 110	Networking Concepts	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course introduces students to the networking field. Topics include network terminology and protocols, local-area networks, wide-area networks, OSI model, cabling, router programming, Ethernet, IP addressing, and network standards. Upon completion, students should be able to perform tasks related to networking mathematics, terminology, and models, media, Ethernet, subnetting, and TCP/IP Protocols. *This course is also available through the Virtual Learning Community (VLC).*

NET 175	Wireless Technology	2	2	3
Prerequisites:	NET 110 or NET 125			
Corequisites:	None			

This course introduces the student to wireless technology and interoperability with different communication protocols. Topics include Wireless Application Protocol (WAP), Wireless Markup language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications.

NOS - Networking Operating Systems

NOS 110	Operating System Concepts	2	3	3
Prerequisites:	None			
Corequisites:	None			

This course introduces students to a broad range of operating system concepts, including installation and maintenance. Emphasis is placed on operating system concepts, management, maintenance, and resources required. Upon completion of this course, students will have an understanding of OS concepts, installation, management, maintenance, using a variety of operating systems.

NOS 130 Windows Single User 2 2 3
 Prerequisites: NOS 110
 Corequisites: None

This course introduces operating system concepts for single-user systems. Topics include hardware management, file and memory management, system configuration/ optimization, and utilities. Upon completion, students should be able to perform operating systems functions at the support level in a single-user environment.

NOS 230 Windows Admin I 2 2 3
 Prerequisites: NOS 130
 Corequisites: None

This course covers the installation and administration of a Windows Server network operating system. Topics include managing and maintaining physical and logical devices, access to resources, the server environment, managing users, computers, and groups, and Managing/Implementing Disaster Recovery. Upon completion, students should be able to manage and maintain a Windows Server environment.

NUR - Nursing

NUR 101 Practical Nursing I 7 6 6 11
 Prerequisites: Admission to the PN Program
 Corequisites: MAT 110, BIO 106

This course introduces concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, legal/ethical/ professional issues, wellness/illness patterns, and basic nursing skills. Upon completion, students should be able to demonstrate beginning understanding of nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. *This is a diploma-level course.*

NUR 102 Practical Nursing II 8 0 12 12
 Prerequisites: NUR 101, MAT 110, BIO 106
 Corequisites: PSY 150, ENG 111

This course includes more advanced concepts as related to the practical nurse's caregiver and discipline-specific roles. Emphasis is placed on the nursing process, delegation, cost effectiveness, legal/ethical/professional issues, and wellness/ illness patterns. Upon completion, students should be able to begin participating in the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. *This is a diploma-level course.*

NUR 103 Practical Nursing III 6 0 12 10
 Prerequisites: NUR 102, PSY 150, ENG 111
 Corequisites: PSY 241

This course focuses on use of nursing/related concepts by practical nurses as providers of care/members of discipline in collaboration with health team members. Emphasis is placed on the nursing process, wellness/illness patterns, entry-level issues, accountability, advocacy, professional development, evolving technology, and changing health care delivery systems. Upon completion, students should be able to use the nursing process to promote/maintain/restore optimum health for diverse clients throughout the life span. *This is a diploma-level course.*

NUR 110 Nursing I 5 3 6 8
 Prerequisites: Admission to the ADN Program
 Corequisites: BIO 168, MAT 110, CIS 111

This course introduces concepts basic to beginning nursing practice. Emphasis is placed on introducing the nurse's role as provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to demonstrate beginning competence in caring for individuals with common alterations in health. The student will be able to demonstrate knowledge of usual human functioning and principles of health promotion.

NUR 120 Nursing II 5 3 6 8
 Prerequisites: NUR 110, BIO 168, MAT 110, CIS 111
 Corequisites: BIO 169, PSY 150

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is placed on developing the nurse's role as provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to participate in the delivery of nursing care for individuals with common alterations in health. Pharmacology and principles of medication administration are introduced.

NUR 130 Nursing III 4 3 6 7
 Prerequisites: NUR 120 or NUR 189, BIO 169, PSY 150
 Corequisites: ENG 111, PSY 241

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is placed on expanding the nurse's role as provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to deliver nursing care to individuals with common alterations in health. The focus of this course is the delivery of nursing care to the childbearing family and clients with reproductive disorders.

NUR 189 Nursing Transition 1 3 0 2
 Prerequisites: None
 Corequisites: None

This course is designed to assist the licensed practical nurse in transition to the role of the associate degree nurse. Topics include the role of the registered nurse, nursing process, homeostasis, and validation of selected nursing skills and physical assessment. Upon completion, students should be able to articulate into the ADN program at the level of the generic student.

NUR 210 Nursing IV 5 3 12 10
 Prerequisites: NUR 130, ENG 111, PSY 241
 Corequisites: ENG 112

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is placed on using collaboration as a provider of care, manager of care, and member of the discipline of nursing. Upon completion, students should be able to modify nursing care for individuals with common alterations in health. The focus of this course is the delivery of nursing care to psychiatric and medical-surgical clients.

NUR 220 Nursing V 4 3 15 10
 Prerequisites: NUR 210, ENG 112
 Corequisites: Humanities/Fine Arts Elective, Physical Education Elective

This course provides an expanded knowledge base for delivering nursing care to individuals of various ages. Emphasis is placed on the nurse's role as an independent provider and manager of care for a group of individuals and member of a multidisciplinary team. Upon completion, students should be able to provide comprehensive nursing care to a group of individuals with common complex health alterations.

OST - Office Systems Technology

OST 080 Keyboarding Literacy 1 2 2
 Prerequisites: None
 Corequisites: None

This course is designed to develop elementary keyboarding skills. Emphasis is placed on mastery of the keyboard. Upon completion, students should be able to demonstrate basic proficiency in keyboarding.

OST 122 Office Computations 1 2 2
 Prerequisites: None
 Corequisites: None

This course introduces the keypad and the touch method using the electronic calculator. Topics include mathematical functions in business applications. Upon completion, students should be able to use the electronic calculator to solve a wide variety of problems commonly encountered in business.

OST 131 Keyboarding 1 2 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.

OST 132 Keyboard Skill Building 1 2 2
 Prerequisites: OST 131
 Corequisites: None

This course is designed to increase speed and improve accuracy in keyboarding. Emphasis is placed on diagnostic tests to identify accuracy and speed deficiencies followed by corrective drills. Upon completion, students should be able to keyboard rhythmically with greater accuracy and speed.

OST 134 Text Entry & Formatting 2 2 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. *This course is also available through the Virtual Learning Community (VLC).*

OST 136 Word Processing 2 2 3
 Prerequisites: CIS 110 or CIS 111
 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. *This course is also available through the Virtual Learning Community (VLC).*

OST 162 Executive Terminology 3 0 3
 Prerequisites: None
 Corequisites: None

This course is designed to increase and improve proficiency in word usage. Topics include root words, prefixes, suffixes, homonyms, synonyms, and specialized vocabularies. Upon completion, students should be able to use acquired vocabulary skills in the global workplace.

OST 164 Text Editing Applications 3 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. *This course is also available through the Virtual Learning Community (VLC).*

OST 181 Introduction to Office Systems 2 2 3
 Prerequisites: OST 131
 Corequisites: None

This course introduces the skills and abilities needed in today's office. Topics include effectively interacting with co-workers and the public, processing simple financial and informational documents, and performing functions typical of today's offices.

Upon completion, students should be able to display skills and decision-making abilities essential for functioning in the total office context.

OST 184 Records Management 2 2 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. *This course is also available through the Virtual Learning Community (VLC).*

OST 223 Admin Office Transcript I 2 2 3
Prerequisites: OST 164; and OST 134 or OST 136
Corequisites: None

This course provides experience in transcribing documents. Emphasis is placed on appropriate formatting, advanced text editing skills, and transcription techniques. Upon completion, students should be able to transcribe documents.

OST 233 Office Publications Design 2 2 3
Prerequisites: OST 136
Corequisites: None

This course provides entry-level skills in using software with desktop publishing capabilities. Topics include principles of page layout, desktop publishing terminology and applications, and legal and ethical considerations of software use. Upon completion, students should be able to design and produce professional business documents and publications.

OST 236 Adv Word/Information Proc 2 2 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. *This course is also available through the Virtual Learning Community (VLC).*

OST 289 Administrative Office Mgt 2 2 3
Prerequisites: OST 164 and either OST 134 or OST 136
Corequisites: None

This course is designed to be a capstone course for the office professional and provides a working knowledge of modern office procedures. Emphasis is placed on scheduling, telephone procedures, travel arrangements, event planning, office design, and ergonomics. Upon completion, students should be able to adapt in an office environment.

PED - Physical Education

PED 110 Fit and Well for Life (College Transfer) 1 2 2

Prerequisites: None

Corequisites: None

This course is designed to investigate and apply the basic concepts and principles of lifetime physical fitness and other health-related factors. Emphasis is placed on wellness through the study of nutrition, weight control, stress management, and consumer facts on exercise and fitness. Upon completion, students should be able to plan a personal, lifelong fitness program based on individual needs, abilities, and interests. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 111 Physical Fitness I (College Transfer) 0 3 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. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 112 Physical Fitness II (College Transfer) 0 3 1

Prerequisites: PED 111

Corequisites: None

This course is an intermediate-level fitness class. Topics include specific exercises contributing to fitness and the role exercise plays in developing body systems. Upon completion, students should be able to implement and evaluate an individualized physical fitness program. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 113 Aerobics I (College Transfer) 0 3 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 to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

individual training goals and addressing weight training needs and interests. Upon completion, students should be able to establish and implement an individualized advanced weight training program. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 120 Walking for Fitness (College Transfer) 0 3 1

Prerequisites: None

Corequisites: None

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

PED 121 Walk, Jog, Run (College Transfer) 0 3 1

Prerequisites: None

Corequisites: None

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

PED 128 Golf-Beginning (College Transfer) 0 2 1

Prerequisites: None

Corequisites: None

This course emphasizes the fundamentals of golf. Topics include the proper grips, stance, alignment, swings for the short and long game, putting, and the rules and etiquette of golf. Upon completion, students should be able to perform the basic golf shots and demonstrate a knowledge of the rules and etiquette of golf. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 129 Golf-Intermediate (College Transfer) 0 2 1

Prerequisites: PED 128

Corequisites: None

This course covers the more advanced phases of golf. Emphasis is placed on refining the fundamental skills and learning more advanced phases of the games such as club selection, trouble shots, and course management. Upon completion, students should be able demonstrate the knowledge and ability to play a recreational round of golf. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 130 Tennis-Beginning (College Transfer) 0 2 1

Prerequisites: None
Corequisites: None

This course emphasizes the fundamentals of tennis. Topics include basic strokes, rules, etiquette, and court play. Upon completion, students should be able to play recreational tennis. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 131 Tennis-Intermediate (College Transfer) 0 2 1

Prerequisites: PED 130
Corequisites: None

This course emphasizes the refinement of playing skills. Topics include continuing the development of fundamentals, learning advanced serves, and strokes and pace and strategies in singles and doubles play. Upon completion, students should be able to play competitive tennis. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 143 Volleyball-Beginning (College Transfer) 0 2 1

Prerequisites: None
Corequisites: None

This course covers the fundamentals of volleyball. Emphasis is placed on the basics of serving, passing, setting, spiking, blocking, and the rules and etiquette of volleyball. Upon completion, students should be able to participate in recreational volleyball. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 144 Volleyball-Intermediate (College Transfer) 0 2 1

Prerequisites: PED 143
Corequisites: None

This course covers more advanced volleyball techniques. Emphasis is placed on refining skills and developing more advanced strategies and techniques. Upon completion, students should be able to participate in competitive volleyball. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 145 Basketball-Beginning (College Transfer) 0 2 1

Prerequisites: None
Corequisites: None

This course covers the fundamentals of basketball. Emphasis is placed on skill development, knowledge of the rules, and basic game strategy. Upon completion,

students should be able to participate in recreational basketball. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 146 Basketball-Intermediate (College Transfer) 0 2 1
 Prerequisites: PED 145
 Corequisites: None

This course covers more advanced basketball techniques. Emphasis is placed on refining skills and developing more advanced strategies and techniques. Upon completion, students should be able to play basketball at a competitive level. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 148 Softball (College Transfer) 0 2 1
 Prerequisites: None
 Corequisites: None

This course introduces the fundamental skills and rules of softball. Emphasis is placed on proper techniques and strategies for playing softball. Upon completion, students should be able to participate in recreational softball. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PED 230 Shotokan Karate (College Transfer) 0 3 1
 Prerequisites: None
 Corequisites: None

This course introduces martial arts using the Shotokan Karate form. Topics include proper conditioning exercises, proper terminology, historical foundations, and etiquette and drills. Upon completion, students should be able to perform skills and techniques related to this form of martial arts. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PHI - Philosophy

PHI 220 Western Philosophy I (College Transfer) 3 0 3
 Prerequisites: ENG 111
 Corequisites: None

This course covers Western intellectual and philosophic thought from the early Greeks through the medievalists. Emphasis is placed on such figures as the pre-Socratics, Plato, Aristotle, Epicurus, Epictetus, Augustine, Suarez, Anselm, and Aquinas. Upon completion, students should be able to trace the development of leading ideas regarding reality, knowledge, reason, and faith. *This course has been approved to*

satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.

PHI 221 Western Philosophy II (College Transfer) 3 0 3
 Prerequisites: ENG 111
 Corequisites: None

This course covers Western intellectual and philosophic thought from post-medievalists through recent thinkers. Emphasis is placed on such figures as Descartes, Spinoza, Leibnitz, Locke, Berkeley, Hume, Kant, Hegel, Marx, Mill, and representatives of pragmatism, logical positivism, and existentialism. Upon completion, students should be able to trace the development of leading ideas concerning knowledge, reality, science, society, and the limits of reason. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

PHI 230 Introduction to Logic (College Transfer) 3 0 3
 Prerequisites: ENG 111
 Corequisites: None

This course introduces basic concepts and techniques for distinguishing between good and bad reasoning. Emphasis is placed on deduction, induction, validity, soundness, syllogisms, truth functions, predicate logic, analogical inference, common fallacies, and scientific methods. Upon completion, students should be able to analyze arguments, distinguish between deductive and inductive arguments, test validity, and appraise inductive reasoning. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

PHI 240 Introduction to Ethics (College Transfer) 3 0 3
 Prerequisites: ENG 111
 Corequisites: None

This course introduces theories about the nature and foundations of moral judgments and applications to contemporary moral issues. Emphasis is placed on utilitarianism, rule-based ethics, existentialism, relativism versus objectivism, and egoism. Upon completion, students should be able to apply various ethical theories to individual moral issues such as euthanasia, abortion, crime and punishment, and justices. *This course has been approved to satisfy the comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

PHY - Physics

PHY 110 Conceptual Physics (College Transfer) 3 0 3
 Prerequisites: None
 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

PHY 110A Conceptual Physics Lab (College Transfer) 0 2 1

Prerequisites: None
Corequisites: PHY 110

This course is a laboratory for PHY 110. Emphasis is placed on laboratory experiences that enhance materials presented in PHY 110. Upon completion, students should be able to apply the laboratory experiences to the concepts presented in PHY 110. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics.*

PHY 151 College Physics I (College Transfer) 3 2 4

Prerequisites: MAT 161, MAT 171, or MAT 175
Corequisites: None

This course uses algebra- and trigonometry-based mathematical models to introduce the fundamental concepts that describe the physical world. Topics include units and measurement, vectors, linear kinematics and dynamics, energy, power, momentum, fluid mechanics, and heat. Upon completion, students should be able to demonstrate an understanding of the principles involved and display analytical problem-solving ability for the topics covered. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in natural sciences/mathematics. This course is also available through the Virtual Learning Community (VLC).*

PHY 152 College Physics II (College Transfer) 3 2 4

Prerequisites: PHY 151
Corequisites: None

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

POL - Political Science

POL	120	American Government (College Transfer)	3	0	3
Prerequisites:		None			
Corequisites:		None			

This course is a study of the origins, development, structure, and functions of American national government. Topics include the constitutional framework, federalism, the three branches of government including the bureaucracy, civil rights and liberties, political participation and behavior, and policy formation. Upon completion, students should be able to demonstrate an understanding of the basic concepts and participatory processes of the American political system. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

PSY - Psychology

PSY	101	Applied Psychology	3	0	3
Prerequisites:		None			
Corequisites:		None			

This course introduces the basic principles of psychology as they apply to daily life. Topics include perception, emotions, motivation, adjustment, behavior management, communication, and related topics that promote growth and development on the job and in one's personal life. Upon completion, students should be able to apply the principles learned in this class to everyday living. *This course is intended for diploma programs.*

PSY	102	Human Relations	2	0	2
Prerequisites:		None			
Corequisites:		None			

This course covers the skills necessary to handle human relationships effectively. Topics include self-understanding, interpersonal communication, group dynamics, leadership skills, diversity, time and stress management, and conflict resolution with emphasis on work relationships. Upon completion, students should be able to demonstrate improved personal and interpersonal effectiveness. *This course is intended for diploma programs.*

PSY	115	Stress Management	2	0	2
Prerequisites:		None			
Corequisites:		None			

This course covers stressors and techniques for stress management. Topics include anger, assertiveness, adaptation to change, conflict, coping skills, identification of stressors, time management, and the physiology of stress and burnout. Upon completion, students should be able to demonstrate an understanding of the effective management of stress.

PSY 150 General Psychology (College Transfer) 3 0 3

Prerequisites: None
 Corequisites: None

This course provides an overview of the scientific study of human behavior. Topics include history, methodology, biopsychology, sensation, perception, learning, motivation, cognition, abnormal behavior, personality theory, social psychology, and other relevant topics. Upon completion, students should be able to demonstrate a basic knowledge of the science of psychology. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

PSY 237 Social Psychology (College Transfer) 3 0 3

Prerequisites: PSY 150 or SOC 210
 Corequisites: None

This course introduces the study of individual behavior within social contexts. Topics include affiliation, attitude formation and change, conformity, altruism, aggression, attribution, interpersonal attraction, and group behavior. Upon completion, students should be able to demonstrate an understanding of the basic principles of social influences on behavior. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

PSY 239 Psychology of Personality (College Transfer) 3 0 3

Prerequisites: PSY 150
 Corequisites: None

This course covers major personality theories and personality research methods. Topics include psychoanalytic, behavioristic, social learning, cognitive, humanistic, and trait theories including supporting research. Upon completion, students should be able to compare and contrast traditional and contemporary approaches to the understanding of individual differences in human behavior. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

PSY 241 Developmental Psych (College Transfer) 3 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

PSY 243 Child Psychology (College Transfer) 3 0 3

Prerequisites: PSY 150
Corequisites: None

This course provides an overview of physical, cognitive, and psychosocial development from conception through adolescence. Topics include theories and research, interaction of biological and environmental factors, language development, learning and cognitive processes, social relations, and moral development. Upon completion, students should be able to identify typical and atypical childhood behavior patterns as well as appropriate strategies for interacting with children. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PSY 244 Child Development I 3 0 3

Prerequisites: None
Corequisites: None

This course provides an introduction to the study of child development and examines the growth and development of children from conception through early childhood. Topics include historical and theoretical perspectives, terminology, research and observation techniques as well as physical, cognitive, and psychosocial growth and change. Upon completion, students should be able to demonstrate an understanding of the early stages of child development.

PSY 245 Child Development II 3 0 3

Prerequisites: None
Corequisites: None

This course examines the growth and development of children during early and middle childhood. Emphasis is placed on factors influencing physical, cognitive, and psychosocial growth and change. Upon completion, students should be able to demonstrate an understanding of early and middle child development.

PSY 246 Adolescent Psychology (College Transfer) 3 0 3

Prerequisites: PSY 150
Corequisites: None

This course provides an overview of the behavior patterns, life changes, and social issues that accompany the developmental stage of adolescence. Topics include developmental theories; physical, cognitive and psychosocial growth; transitions to young adulthood; and sociocultural factors that influence adolescent roles in home, school and community. Upon completion, students should be able to identify typical and atypical adolescent behavior patterns as well as appropriate strategies for interacting with adolescents. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PSY 263 Educational Psychology (College Transfer) 3 0 3

Prerequisites: PSY 150

Corequisites: None

This course examines the application of psychological theories and principles to the educational process and setting. Topics include learning and cognitive theories, achievement motivation, teaching and learning styles, teacher and learner roles, assessment, and developmental issues. Upon completion, students should be able to demonstrate an understanding of the application of psychological theory to educational practice. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

PSY 281 Abnormal Psychology (College Transfer) 3 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 to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

PSY 284 Experimental Psychology 3 2 4

Prerequisites: PSY 150 and MAT 161

Corequisites: None

This course introduces basic methods of psychological experimentation. Emphasis is placed on research methods and problems of experimental control and data evaluation. Upon completion, students should be able to demonstrate an understanding of experimental methods as they relate to psychology and of statistical methods of research.

RED - Reading

RED 070 Essential Reading Skills 3 2 4

Prerequisites: None

Corequisites: None

This course is designed to strengthen reading skills. Emphasis is placed on basic word attack skills, vocabulary, transitional words, paragraph organization, basic comprehension skills, and learning strategies. Upon completion, students should be able to demonstrate competence in the skills required for RED 080. *This course does not satisfy the developmental reading prerequisite for ENG 111 or ENG 111A.*

RED 080 Intro to College Reading 3 2 4
 Prerequisites: RED 070 or ENG 075
 Corequisites: None

This course introduces effective reading and inferential thinking skills in preparation for RED 090. Emphasis is placed on vocabulary, comprehension, and reading strategies. Upon completion, students should be able to determine main ideas and supporting details, recognize basic patterns of organization, draw conclusions, and understand vocabulary in context. *This course does not satisfy the developmental reading prerequisite for ENG 111 or ENG 111A.*

RED 090 Improved College Reading 3 2 4
 Prerequisites: RED 080 or ENG 085
 Corequisites: None

This course is designed to improve reading and critical thinking skills. Topics include vocabulary enhancement; extracting implied meaning; analyzing author's purpose, tone, and style; and drawing conclusions and responding to written material. Upon completion, students should be able to comprehend and analyze college-level reading material. *This course satisfies the developmental reading prerequisite for ENG 111 or ENG 111A.*

RED 111 Critl Reading for College 3 0 3
 Prerequisites: None
 Corequisites: None

This course is designed to enhance critical reading skills. Topics include vocabulary enrichment, reading flexibility, metacognitive strategies, and advanced comprehension skills, including analysis and evaluation. Upon completion, students should be able to demonstrate comprehension and analysis and respond effectively to material across disciplines.

REL - Religion

REL 110 World Religions (College Transfer) 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces the world's major religious traditions. Topics include Primal religions, Hinduism, Buddhism, Islam, Judaism, and Christianity. Upon completion, students should be able to identify the origins, history, beliefs, and practices of the religions studied. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

REL 211 Intro to Old Testament (College Transfer) 3 0 3
 Prerequisites: None
 Corequisites: None

This course is a survey of the literature of the Hebrews with readings from the law,

prophets, and other writings. Emphasis is placed on the use of literary, historical, archeological, and cultural analysis. Upon completion, students should be able to use the tools of critical analysis to read and understand Old Testament literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

REL 212 Intro to New Testament (College Transfer) 3 0 3

Prerequisites: None

Corequisites: None

This course is a survey of the literature of first-century Christianity with readings from the gospels, Acts, and the Pauline and pastoral letters. Topics include the literary structure, audience, and religious perspective of the writings, as well as the historical and cultural context of the early Christian community. Upon completion, students should be able to use the tools of critical analysis to read and understand New Testament literature. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

REL 221 Religion in America (College Transfer) 3 0 3

Prerequisites: None

Corequisites: None

This course is an examination of religious beliefs and practice in the United States. Emphasis is placed on mainstream religious traditions and non-traditional religious movements from the Colonial period to the present. Upon completion, students should be able to recognize and appreciate the diversity of religious traditions in America. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

SEC - Information Systems Security

SEC 110 Security Concepts 3 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.

SEC 240 Wireless Security 2 2 3

Prerequisites: SEC 110 and NET 175

Corequisites: None

This course introduces security principles and topics related to the wireless networking environment. Topics include network topologies, network protocols, security

issues, and best practices for wireless environments. Upon completion, students should be able to design, setup, manage, and secure a wireless network.

SELECTED TOPICS

These courses provide an opportunity to explore areas of current interest in specific program or discipline areas. Emphasis is placed on subject matter appropriate to the program or discipline. Upon completion, students should be able to demonstrate an understanding of the specific area of study.

These courses may be taught in selected areas using the appropriate discipline. Course numbers will range from 191-193 and from 291-293 and course credit will range from 1-3 semester hours. For example, a first-year one credit English selected topics course would be ENG 191 Selected Topics in English. Students desiring to take Selected Topics courses must have advisor and Department Head approval.

Examples:

ENG 191	Selected Topics in English	0-1	0-3	1
Prerequisites:	None			
Corequisites:	None			
ENG 192	Selected Topics in English	0-2	0-6	2
Prerequisites:	None			
Corequisites:	None			
ENG 193	Selected Topics in English	1-3	0-6	3
Prerequisites:	None			
Corequisites:	None			
ENG 291	Selected Topics in English	0-1	0-3	1
Prerequisites:	None			
Corequisites:	None			
ENG 292	Selected Topics in English	0-2	0-6	2
Prerequisites:	None			
Corequisites:	None			
ENG 293	Selected Topics in English	1-3	0-6	3
Prerequisites:	None			
Corequisites:	None			

SEMINARS

These courses provide an opportunity to explore topics of current interest. Emphasis is placed on the development of critical listening skills and the presentation of seminar issues. Upon completion, students should be able to critically analyze issues and establish informed opinions.

These courses may be taught in selected areas using the appropriate curriculum prefix. Course numbers will range from 196-198 and from 296-298 and course credit will range from 1-3 semester hours. For example, a first-year one credit English seminar course would be ENG 196 Seminar in English. Students desiring to take Seminar courses must have advisor and Department Head approval.

Examples:

ENG 196	Seminar in English	0-1	0-3	1
Prerequisites:	None			
Corequisites:	None			
ENG 197	Seminar in English	0-2	0-6	2
Prerequisites:	None			
Corequisites:	None			
ENG 198	Seminar in English	1-3	0-6	3
Prerequisites:	None			
Corequisites:	None			
ENG 296	Seminar in English	0-1	0-3	1
Prerequisites:	None			
Corequisites:	None			
ENG 297	Seminar in English	0-2	0-6	2
Prerequisites:	None			
Corequisites:	None			
ENG 298	Seminar in English	1-3	0-6	3
Prerequisites:	None			
Corequisites:	None			

SOC - Sociology

SOC 100	Concepts in Sociology	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course examines the basic concepts of sociology from the perspective of the individual as a member of society. Topics include an understanding of society, culture, collective behavior, community life, social institutions, social change, and the effect of social life on human behavior. Upon completion, students should be able to demonstrate knowledge of the impact of social interaction on institutions, groups, and individuals. *This course is intended for certificate and diploma programs.*

SOC 210	Introduction to Sociology (College Transfer)	3	0	3
Prerequisites:	None			
Corequisites:	None			

This course introduces the scientific study of human society, culture, and social interactions. Topics include socialization, research methods, diversity and inequality,

cooperation and conflict, social change, social institutions, and organizations. Upon completion, students should be able to demonstrate knowledge of sociological concepts as they apply to the interplay among individuals, groups, and societies. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

SOC 213 Sociology of the Family (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course covers the institution of the family and other intimate relationships. Emphasis is placed on mate selection, gender roles, sexuality, communication, power and conflict, parenthood, diverse lifestyles, divorce and remarriage, and economic issues. Upon completion, students should be able to analyze the family as a social institution and the social forces which influence its development and change. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

SOC 220 Social Problems (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course provides an in-depth study of current social problems. Emphasis is placed on causes, consequences, and possible solutions to problems associated with families, schools, workplaces, communities, and the environment. Upon completion, students should be able to recognize, define, analyze, and propose solutions to these problems. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences. This course is also available through the Virtual Learning Community (VLC).*

SOC 232 Social Context of Aging (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course provides an overview of the social implications of the aging process. Emphasis is placed on the roles of older adults within families, work and economics, politics, religion, education, and health care. Upon completion, students should be able to identify and analyze changing perceptions, diverse lifestyles, and social and cultural realities of older adults. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

SOC 240 Social Psychology (College Transfer) 3 0 3

Prerequisites: None
Corequisites: None

This course examines the influence of culture and social groups on individual behavior and personality. Emphasis is placed on the process of socialization, communication, conformity, deviance, interpersonal attraction, intimacy, race and ethnicity, small group experiences, and social movements. Upon completion, students should be able to identify and analyze cultural and social forces that influence the individual in a society. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in social/behavioral sciences.*

SOC 244 Soc of Death & Dying (College Transfer) 3 0 3

Prerequisites: None

Corequisites: None

This course presents sociological perspectives on death and dying. Emphasis is placed on analyzing the different death rates among various groups, races, and societies, as well as various types of death. Upon completion, students should be able to discuss the rituals of death, both cultural and religious, and examine current issues relating to death and dying. *This course has been approved to satisfy the Comprehensive Articulation Agreement for transferability as a pre-major and/or elective course requirement.*

SPA - Spanish

SPA 111 Elementary Spanish I (College Transfer) 3 0 3

Prerequisites: None

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 has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts. This course is also available through the Virtual Learning Community (VLC).*

SPA 112 Elementary Spanish II (College Transfer) 3 0 3

Prerequisites: SPA 111

Corequisites: None

This course is a continuation of SPA 111 focusing on the fundamental elements of the Spanish language within a cultural context. Emphasis is placed on the progressive development of listening, speaking, reading, and writing skills. Upon completion, students should be able to comprehend and respond with increasing proficiency to spoken and written Spanish and demonstrate further cultural awareness. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

SPA 120 Spanish for the Workplace 3 0 3
 Prerequisites: None
 Corequisites: None

This course offers applied Spanish for the workplace to facilitate basic communication with people whose native language is Spanish. Emphasis is placed on oral communication and career-specific vocabulary that targets health, business, and/or public service professions. Upon completion, students should be able to communicate at a functional level with native speakers and demonstrate cultural sensitivity.

SPA 211 Intermediate Spanish I 3 0 3
(College Transfer)
 Prerequisites: SPA 112
 Corequisites: None

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

SPA 212 Intermediate Spanish II 3 0 3
(College Transfer)
 Prerequisites: SPA 211
 Corequisites: None

This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. *This course has been approved to satisfy the Comprehensive Articulation Agreement general education core requirement in humanities/fine arts.*

SWK- Social Work

SWK 110 Intro to Social Work 3 0 3
 Prerequisites: None
 Corequisites: None

This course examines the historical development, values, orientation, and professional standards of social work and focuses on the terminology and broader systems of social welfare. Emphasis is placed on the various fields of practice including those agencies whose primary function is financial assistance, corrections, mental health, and protective services. Upon completion, students should be able to demonstrate an understanding of the knowledge, values, and skills of the social work professional.

VEN - Viticulture/Enology

VEN 132 Wines of the World 1 2 2
 Prerequisites: None
 Corequisites: None

This course provides an introduction to the major wine-growing regions of the world, including history, distribution, climate, and winetypes of these regions. Emphasis will be placed on grape varieties planted and upon environmental and cultural factors influencing grape growth and wine quality and style. Upon completion, students should be familiar with the breadth and depth of the wine-producing regions of the world.

VEN 133 Intro to Winemaking 3 0 3
 Prerequisites: None
 Corequisites: None

This course provides an overview of the history of winemaking, fermentation, winery operations, and physiology of wine consumption. Emphasis is placed on the types of wines produced in the United States with particular attention to the wines of the Southeast. Upon completion, students should be familiar with general winemaking procedures.

VEN 134 Grape Harvest 1 0 1
 Prerequisites: None
 Corequisites: None

This course introduces grape harvest practices. Topics include labor contracts; harvest crew organization; standards of fruit maturity; product transportation; and maintenance of fruit quality and grape crush. Upon completion, students should be able to demonstrate competency in grape harvest management.

VEN 135 Intro to Viticulture 3 2 4
 Prerequisites: None
 Corequisites: None

This course introduces grape growing. Topics include botany, fruiting and rootstock cultivars; anatomy and physiology; history and distribution of grapes; vine classification; world growing areas including latitude, climate and soils; and common diseases and pests. Upon completion, students should be able to demonstrate an overall understanding of the viticulture field.

VEN 136 General Viticulture 3 0 3
 Prerequisites: None
 Corequisites: None

This course surveys winter vineyard management practices. Topics include training, pruning, and trellising, grape diseases and their control, propagation, and vineyard economics. Upon completion, students should be able to demonstrate competency in managing vineyards through the winter months.

VEN 137 Vineyard Management 3 2 4
 Prerequisites: None
 Corequisites: None

This course introduces the biology and control of grape diseases and disorders. Topics include fungal, bacterial, and viral diseases, phylloxera, insect and vertebrate control and vineyard floor management. Upon completion, students should be able to demonstrate an understanding of grape diseases and their control.

VEN 138 Vineyard Estab & Develop 3 0 3
 Prerequisites: VEN 135
 Corequisites: None

This course covers site selection and preparation, varietal, clonal, and rootstock selection and planting, appropriate trellis systems, vine training during the first year of growth. Emphasis is placed on the development of healthy vines which will bear high-quality fruit at reasonable cost. Upon completion, students should be able to make independent decisions with regard to the establishment of a new vineyard.

VEN 237 Wine Grape Production 3 0 3
 Prerequisites: VEN 138
 Corequisites: None

This course includes cultural practices in wine grape production after the first year including training, summer and winter pruning, canopy management, irrigation, mineral nutrition, crop rotation and harvesting. Emphasis is placed upon particular problems associated with grape production in the Southeast. Upon completion, students should be able to make decisions essential to the production of high-quality wine grapes.

VEN 238 Grape Pests/Disea/Disorde 3 0 3
 Prerequisites: VEN 138
 Corequisites: None

This course provides an introduction to pests and diseases of vineyards. Topics include pest/disease identification and control methods and sampling techniques with emphasis on integrated management in pest control. Upon completion, students should be able to identify and manage common vineyard pests and diseases.

VEN 239 Vineyard Management II 3 0 3
 Prerequisites: VEN 138
 Corequisites: None

This course covers practical aspects of the daily operations of the vineyard. Topics include scheduling and timing of vineyard activities, personnel acquisition and management, and legal and regulatory issues, as well as sources and types of supplies. Upon completion, students should be conversant with most aspects of vineyard management.

VEN 280 Wine Production 3 0 3
 Prerequisites: None
 Corequisites: None

This course introduces winemaking practices. The topics of study include fruit choices and quality, crushing, fermenting, bottling, basic winemaking chemistry and microbiology. Upon completion, students should be able to demonstrate knowledge of the overall winemaking process.

VEN 287 Vineyard Operations 3 2 4
 Prerequisites: None
 Corequisites: None

This course covers basic vineyard operations including field applications and activities necessary for the successful operation of a commercial winegrape vineyard in the southeastern U.S. Topics include planting, canopy management, irrigation design, installation and maintenance, IPM implementation and pesticide application, trellis maintenance, equipment selection and use, fertilization, harvesting and contracts. Upon completion, students should be able to make and implement sound viticultural decisions that allow the production of a sustainable and quality crop of grapes.

WEB - Web Technologies

WEB 110 Internet/Web Fundamentals 2 2 3
 Prerequisites: CIS 110
 Corequisites: None

This course introduces basic markup language, various navigational tools and services of the Internet. Topics include creating web pages, using internet protocols, search engines, file compression/decompression, FTP, email, listservers, and other related topics. Upon completion, students should be able to deploy a website created with basic markup language, retrieve/decompress files, email, FTP, and utilize other internet tools.

WLD - Welding

WLD 110 Cutting Processes 1 3 2
 Prerequisites: None
 Corequisites: None

This course introduces oxy-fuel and plasma-arc cutting systems. Topics include safety, proper equipment setup, and operation of oxy-fuel and plasma-arc cutting equipment with emphasis on straight line, curve and bevel cutting. Upon completion, students should be able to oxy-fuel and plasma-arc cut metals of varying thickness.

WLD 112 Basic Welding Processes 1 3 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.

WLD 115	SMAW (Stick) Plate	2	9	5
Prerequisites:	None			
Corequisites:	None			

This course introduces the shielded metal arc (stick) welding process. Emphasis is placed on padding, fillet, and groove welds in various positions with SMAW electrodes. Upon completion, students should be able to perform SMAW fillet and groove welds on carbon plate with prescribed electrodes.

WLD 116	SMAW (Stick) Plate/Pipe	1	9	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.

WLD 121	GMAW (MIG) FCAW/Plate	2	6	4
Prerequisites:	None			
Corequisites:	None			

This course introduces metal arc welding and flux core arc welding processes. Topics include equipment setup and fillet and groove welds with emphasis on application of GMAW and FCAW electrodes on carbon steel plate. Upon completion, students should be able to perform fillet welds on carbon steel with prescribed electrodes in the flat, horizontal, and overhead positions.

WLD 122	GMAW (MIG) Plate/Pipe	1	6	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.

WLD 131	GTAW (TIG) Plate	2	6	4
Prerequisites:	None			
Corequisites:	None			

This course introduces the gas tungsten arc (TIG) welding process. Topics include correct selection of tungsten, polarity, gas, and proper filler rod with emphasis placed on safety, equipment setup, and welding techniques. Upon completion, students should be able to perform GTAW fillet and groove welds with various electrodes and filler materials.

WLD 132	GTAW (TIG) Plate/Pipe	1	6	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.

WLD 141	Symbols & Specifications	2	2	3
Prerequisites:	None			
Corequisites:	None			

This course introduces the basic symbols and specifications used in welding. Emphasis is placed on interpretation of lines, notes, welding symbols, and specifications. Upon completion, students should be able to read and interpret symbols and specifications commonly used in welding.

WLD 215	SMAW (Stick) Pipe	1	9	4
Prerequisites:	WLD 115 or WLD 116			
Corequisites:	None			

This course covers the knowledge and skills that apply to welding pipe. Topics include pipe positions, joint geometry, and preparation with emphasis placed on bead application, profile, and discontinuities. Upon completion, students should be able to perform SMAW welds to applicable codes on carbon steel pipe with prescribed electrodes in various positions.

WLD 231	GTAW (TIG) Pipe	1	6	3
Prerequisites:	WLD 132			
Corequisites:	None			

This course covers gas tungsten arc welding on pipe. Topics include joint preparation and fit up with emphasis placed on safety, GTAW welding technique, bead application, and joint geometry. Upon completion, students should be able to perform GTAW welds to applicable codes on pipe with prescribed electrodes and filler materials in various pipe positions.

