

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, pay-

rolls, 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 (College Transfer) 3 2 4
 Prerequisites: None
 Corequisites: None

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

ACC 121 Prin of Managerial Accounting (College Transfer) 3 2 4
 Prerequisites: ACC 120
 Corequisites: None

This course includes a greater emphasis on managerial and cost accounting skills. Emphasis is placed on managerial accounting concepts for external and internal analysis, reporting and decision making. Upon completion, students should be able to analyze and interpret transactions relating to managerial concepts including product-costing systems. *This course has been approved to satisfy the Comprehensive Articulation Agreement and ICAA pre-major and/or elective course requirement.*

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.

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.

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.

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.

AGR - Argiculture

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.

ALT - Alternative Energy Technology

ALT 120 Renewable Energy Tech 2 2 3
 Prerequisites: None
 Corequisites: None

This course provides an introduction to multiple technologies that allow for the production and conservation of energy from renewable sources. Topics include hydro-electric, wind power, passive and active solar energy, tidal energy, appropriate building techniques, and energy conservation methods. Upon completion, students should be able to demonstrate an understanding of renewable energy production and its impact on humans and their environment.

ALT 220 Photovoltaic Sys Tech 2 3 3
 Prerequisites: None
 Corequisites: None

This course introduces the concepts, tools, techniques, and materials needed to understand systems that convert solar energy into electricity with photovoltaic (pv) technologies. Topics include site analysis for system integration, building codes, and advances in photovoltaic technology. Upon completion, students should be able to demonstrate an understanding of the principles of photovoltaic technology and current applications.

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 and ICAA 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 and ICAA general education core requirement in humanities/fine arts.*

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 and ICAA 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 and ICAA general education core requirement in humanities/fine arts.*

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 and ICAA general education core requirement in humanities/fine arts.*

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 and ICAA 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 and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor 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 and ICAA pre-major and/or elective course requirement.*

ART 240 Painting I 0 6 3
(College Transfer)

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 and ICAA pre-major and/or elective course requirement.*

ART 241 Painting II 0 6 3
(College Transfer)

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 and ICAA 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 and ICAA 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 and ICAA 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 and ICAA 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 and ICAA pre-major and/or elective course requirement.*

ART 285 Ceramics III 0 6 3
(College Transfer)
 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 and ICAA pre-major and/or elective course requirement.*

ART 286 Ceramics IV 0 6 3
(College Transfer)
 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 and ICAA pre-major and/or elective course requirement.*

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. *Under the CAA and ICAA, this course satisfies the general education Natural Science requirement for the AA and AFA degrees. It does not satisfy the general education Natural Science requirement for the AS degree.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 and ICAA 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 and ICAA 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 and ICAA 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 and ICAA 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 and ICAA 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 and ICAA pre-major and/or elective course requirement.*

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 and ICAA pre-major and/or elective course requirement.*

BUS 137 Principles of Management (College Transfer) 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 and ICAA pre-major and/or elective course requirement.*

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.

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.

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.

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.

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
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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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.

CHM	131A	Introduction to Chemistry Lab (College Transfer)	0	3	1
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Prerequisites: None
Corequisites: CHM 131

This course is a laboratory to accompany CHM 131. Emphasis is placed on laboratory experiences that enhance materials presented in CHM 131. Upon completion, students should be able to utilize basic laboratory procedures and apply them to chemical principles presented in CHM 131. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

CHM	132	Organic and Biochemistry (College Transfer)	3	3	4
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Prerequisites: CHM 131 and CHM 131A or CHM 151
Corequisites: None

This course provides a survey of major functional classes of compounds in organic and biochemistry. Topics include structure, properties, and reactions of the major

organic and biological molecules and basic principles of metabolism. Upon completion, students should be able to demonstrate an understanding of fundamental chemical concepts needed to pursue studies in related professional fields. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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, reactions, 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

CIS - Information Systems

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

Prerequisites: None

Corequisites: None

This course introduces computer concepts, including fundamental functions and operations of the computer. Topics include identification of hardware components, basic computer operations, security issues, and use of software applications. Upon completion, students should be able to demonstrate an understanding of the role and function of computers and use the computer to solve problems. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course*

CIS 111 Basic PC Literacy 1 2 2

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.

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.

CIS 115 Intro to Prog & Logic (College Transfer) 2 2 3

Prerequisites: MAT 060 & MAT 070, MAT 060 & MAT 080, MAT 060 & 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Mathematics (Quantitative).*

CJC - Criminal Justice

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 and ICAA pre-major and/or elective course requirement.*

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.

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.

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 and ICAA 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.

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.

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 and ICAA pre-major and/or elective course requirement.*

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.

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.

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.

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 most 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

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 for transfer under the Comprehensive Articulation Agreement and ICAA a general education course in Humanities/Fine Arts (Substitute).*

COS - Cosmetology

COS 111 Cosmetology Concepts I 4 0 4

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 Contemp 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: Cosmetologist License
 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: Cosmetologist License
 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 for transfer under the Comprehensive Articulation Agreement and ICAA a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA a general education course in Humanities/Fine Arts.*

ECO - Economics

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

This course, for those who have not received credit for ECO 251 or 252, 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

EDU - Education

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 responsive to the needs of all children and families. Upon completion, students should be able to design career plans and develop schedules, environments and activity plans appropriate for all children.

EDU	131	Child, Family, & Commun	3	0	3
Prerequisites:	Take one set Set 1: ENG 080, RED 080 Set 2: ENG 085				
Corequisites:	None				

This course covers the development of partnerships between culturally and linguistically diverse families, children, schools and communities. Emphasis is placed on developing skills and identifying benefits for establishing, supporting, and maintaining respectful, collaborative relationships between diverse families, programs/schools, and community agencies/resources. Upon completion, students should be able to explain appropriate relationships between families, educators, and professionals that enhance development and educational experiences of all children.

EDU	144	Child Development I (College Transfer)	3	0	3
Prerequisites:	Take one set Set 1: ENG 080, RED 080 Set 2: ENG 085				
Corequisites:	None				

This course includes the theories of child development, needs, milestones, and factors that influence development, from conception through approximately 36 months. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

EDU	145	Child Development II (College Transfer)	3	0	3
Prerequisites:	Take one set Set 1: ENG 080, RED 080 Set 2: ENG 085				
Corequisites:	None				

This course includes the theories of child development, needs, milestones, and factors that influence development, from preschool through middle childhood. Emphasis is placed on developmental sequences in physical/motor, emotional/social, cognitive, and language domains and the impact of multiple influences on development and learning. Upon completion, students should be able to compare/contrast typical/atypical developmental characteristics, explain environmental factors that impact development, and identify strategies for enhancing development. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

EDU	146	Child Guidance (College Transfer)	3	0	3
Prerequisites:	Take one set				

Set 1: ENG 080, RED 080

Set 2: ENG 085

Corequisites: None

This course introduces principles and practical techniques including the design of learning environments for providing developmentally appropriate guidance for all children, including those at risk. Emphasis is placed on observation skills, cultural influences, underlying causes of behavior, appropriate expectations, development of self control and the role of communication and guidance. Upon completion, students should be able to demonstrate direct/indirect strategies for preventing problem behaviors, teaching appropriate/acceptable behaviors, negotiation, setting limits and recognizing at risk behaviors. *This course has been approved to satisfy the Comprehensive Articulation Agreement pre-major and/or elective course requirement.*

EDU 151 Creative Activities 3 0 3

Prerequisites: Take one set
Set 1: ENG 080, RED 080
Set 2: ENG 085

Corequisites: None

This course covers planning, creation and adaptation of developmentally supportive learning environments with attention to curriculum, interactions, teaching practices and learning materials. Emphasis is placed on creating and adapting integrated, meaningful, challenging and engaging developmentally supportive learning experiences in art, music, movement and dramatics for all children. Upon completion, students should be able to create, adapt, implement and evaluate developmentally supportive learning materials, experiences and environments.

EDU 151A Creative Activities Lab 0 2 1

Prerequisites: Take one set
Set 1: ENG 080, RED 080
Set 2: ENG 085

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: Take one set
Set 1: ENG 080, RED 080
Set 2: ENG 085

Corequisites: None

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

EDU 153A Health, Safety, & Nut Lab 0 2 1
 Prerequisites: Take one set
 Set 1: ENG 080, RED 080
 Set 2: ENG 085
 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 163 Classroom Mgt & Instruct 3 0 3
 Prerequisites: Take one set
 Set 1: ENG 080, RED 080
 Set 2: ENG 085
 Corequisites: None

This course covers management and instructional techniques with school-age populations. Topics include classroom management and organization, teaching strategies, individual student differences and learning styles, and developmentally appropriate classroom guidance techniques. Upon completion, students should be able to utilize developmentally appropriate behavior management and instructional strategies that enhance the teaching/learning process and promote students' academic success.

EDU 216 Foundations of Education 4 0 4
 Prerequisites: Take one set
 Set 1: ENG 090, RED 090
 Set 2: ENG 095
 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, and experiences 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a pre-major and/or elective course requirement at select institutions.*

EDU 221 Children with Exceptional 3 0 3
 Prerequisites: Take one set
 Set 1: ENG 090, RED 090, EDU 144, and EDU 145
 Set 2: ENG 090, RED 090, PSY 244, and PSY 245
 Set 3: ENG 095, EDU 144, and EDU 145
 Set 4: ENG 095, PSY 244, and PSY 245
 Corequisites: None

This course introduces children with exceptionalities, their families, support services, inclusive/diverse settings, and educational/family plans based on the foundations of

child development. Emphasis is placed on the characteristics of exceptionalities, observation and assessment of children, strategies for adapting the learning environment, and identification of community resources. Upon completion, students should be able to recognize diverse abilities, describe the referral process, and depict collaboration with families/professionals to plan/implement, and promote best practice. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a pre-major and/or elective course requirement at select institutions.*

EDU 234 Infants, Toddlers, & Twos 3 0 3
 Prerequisites: Take one set
 Set 1: ENG 090, RED 090, and EDU 119
 Set 2: ENG 095 and EDU 119
 Corequisites: None

This course covers the unique needs and rapid changes that occur in the first three years of life and the inter-related factors that influence development. Emphasis is placed on recognizing and supporting developmental milestones through purposeful strategies, responsive care routines and identifying elements of quality, inclusive early care and education. Upon completion, students should be able to demonstrate respectful relationships that provide a foundation for healthy infant/toddler/twos development, plan/select activities/materials, and partner with diverse families.

EDU 235 School-Age Dev & Program 3 0 3
 Prerequisites: Take one set
 Set 1: ENG 090, RED 090
 Set 2: ENG 095
 Corequisites: None

This course includes developmentally appropriate practices in group settings for school-age children. Emphasis is placed on principles of development, environmental planning, and positive guidance techniques. Upon completion, students should be able to discuss developmental principles for all children ages five to twelve and plan and implement developmentally-appropriate activities.

EDU 259 Curriculum Planning 3 0 3
 Prerequisites: Take one set
 Set 1: ENG 090, RED 090, and EDU 119
 Set 2: ENG 095, and EDU 119
 Corequisites: None

This course is designed to focus on curriculum planning for three to five year olds. Topics include philosophy, curriculum models, indoor and outdoor environments, scheduling, authentic assessment, and planning developmentally appropriate experiences. Upon completion, students should be able to evaluate children's development, critique curriculum, plan for individual and group needs, and assess and create quality environments.

EDU 261 Early Childhood Admin I 3 0 3
 Prerequisites: Take one set
 Set 1: ENG 090, and RED 090

Set 2: ENG 095
Corequisites: EDU 119

This course introduces principles of basic programming and staffing, budgeting/financial management and marketing, and rules and regulations of diverse early childhood programs. Topics include program structure and philosophy, standards of NC child care programs, finance, funding resources, and staff and organizational management. Upon completion, students should be able to develop components of program/personnel handbooks, a program budget, and demonstrate knowledge of fundamental marketing strategies and NC standards.

EDU 262 Early Childhood Admin II 3 0 3
Prerequisites: Take one set
Set 1: ENG 090, RED 090, and EDU 261
Set 2: ENG 095, and EDU 261
Corequisites: EDU 119

This course focuses on advocacy/leadership, public relations/community outreach and program quality/evaluation for diverse early childhood programs. Topics include program evaluation/accreditation, involvement in early childhood professional organizations, leadership/mentoring, family, volunteer and community involvement and early childhood advocacy. Upon completion, students should be able to define and evaluate all components of early childhood programs, develop strategies for advocacy and integrate community into programs.

EDU 263 School-Age Program Admin 2 0 2
Prerequisites: Take one set
Set 1: ENG 090, RED 090
Set 2: ENG 095
Corequisites: None

This course introduces the methods and procedures for development and administration of school-age programs in the public or proprietary setting. Emphasis is placed on the construction and organization of the physical environment. Upon completion, students should be able to plan, develop and administer a quality school-age program.

EDU 271 Educational Technology 2 2 3
Prerequisites: Take one set
Set 1: ENG 090, and RED 090
Set 2: ENG 095
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 Train 2 0 2
 Prerequisites: Take one set
 Set 1: ENG 090, and RED 090
 Set 2: ENG 095
 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: Take one set
 Set 1: ENG 090, RED 090
 Set 2: ENG 095
 Corequisites: None

This course is designed to expand students' understanding of children's language and literacy development and provides strategies for enhancing language/literacy experiences in an enriched environment. Topics include selection of diverse literature and interactive media, the integration of literacy concepts throughout the curriculum, appropriate observations/assessments and inclusive practices. Upon completion, students should be able to select, plan, implement and evaluate developmentally appropriate and diverse language/literacy experiences.

EDU 281 Instruc Strat/Read & Writ 2 2 3
 Prerequisites: Take one set
 Set 1: ENG 090, RED 090
 Set 2: ENG 095
 Corequisites: None

This course covers concepts, resources, and methods for teaching reading and writing to elementary through middle-grade children. Topics include the importance of literacy, learning styles, skills assessment, various reading and writing approaches and instructional strategies. Upon completion, students should be able to assess, plan, implement and evaluate school-age literacy experiences as related to the North Carolina Standard Course of Study.

EDU 284 Early Child Capstone Prac 1 9 4
 Prerequisites: Take one set
 Set 1: ENG 090, RED 090, EDU 119, EDU 144, EDU 145, EDU 146, and EDU 151
 Set 2: ENG 090, RED 090, EDU 119, PSY 244, PSY 245, EDU 146, and EDU 151
 Set 3: ENG 090, RED 090, EDU 119, PSY 245, EDU 144, EDU 146, and EDU 151
 Set 4: ENG 090, RED 090, EDU 119, PSY 244, EDU 145, EDU 146, and EDU 151
 Set 5: ENG 095, EDU 119, EDU 144, EDU 145, EDU 146, and EDU 151

Set 6: ENG 095, EDU 119, PSY 244, PSY 245, EDU 146,
and EDU 151
Set 7: ENG 095, EDU 119, EDU 144, PSY 245, EDU 146,
and EDU 151
Set 8: ENG 095, EDU 119, EDU 145, PSY 244, EDU 146,
and EDU 151

Corequisites: None

This course is designed to allow students to apply skills in a three star (minimum) or NAEYC accredited or equivalent, quality early childhood environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate plans/assessments, appropriate guidance techniques and ethical/professional behaviors as indicated by assignments and onsite faculty visits.

EDU 285 Internship Exp-School Age 1 9 4

Prerequisites: Take one set
Set 1: ENG 090, RED 090, EDU 144, EDU 145, EDU 118, EDU 163
Set 2: ENG 090, RED 090, PSY 244, PSY 245, EDU 118, EDU 163
Set 3: ENG 090, RED 090, PSY 244, EDU 145, EDU 118, EDU 163
Set 4: ENG 090, RED 090, EDU 144, PSY 245, EDU 118, EDU 163
Set 5: ENG 090, RED 090, PSY 244, PSY 245, EDU 216, EDU 163
Set 6: ENG 090, RED 090, EDU 144, EDU 145, EDU 216, EDU 163
Set 7: ENG 090, RED 090, EDU 144, PSY 245, EDU 216, EDU 163
Set 8: ENG 090, RED 090, PSY 244, EDU 216, EDU 163
Set 9: ENG 095, PSY 244, PSY 245, EDU 118, EDU 163
Set 10: ENG 095, EDU 144, EDU 145, EDU 118, EDU 163
Set 11: ENG 095, EDU 144, PSY 245, EDU 118, EDU 163
Set 12: ENG 095, PSY 244, EDU 145, EDU 118, EDU 163
Set 13: ENG 095, PSY 244, PSY 245, EDU 216, EDU 163
Set 14: ENG 095, EDU 144, EDU 145, EDU 216, EDU 163
Set 15: ENG 095, EDU 144, PSY 245, EDU 216, EDU 163
Set 16: ENG 095, PSY 244, EDU 145, EDU 216, EDU 163

Corequisites: None

This course is designed to allow students to apply skills in a quality public or private school environment. Emphasis is placed on designing, implementing and evaluating developmentally appropriate activities and environments for all children; supporting/involving families; and modeling reflective and professional practices. Upon completion, students should be able to demonstrate developmentally appropriate lesson plans/assessments, appropriate guidance techniques, ethical/professional behaviors as indicated by assignments and onsite faculty visits.

EDU 286 Early Childhood Issues 1 0 1

Prerequisites: ENG 111

Corequisites: None

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.

EDU	289	Adv Issues/School Age	2	0	2
Prerequisites:	Take one set Set 1: ENG 090, and RED 090 Set 2: ENG 095				
Corequisites:	None				

This course covers advanced topics and issues that relate to school-age programs. Emphasis is placed on current advocacy issues, emerging technology, professional growth, ethics, and organizations for providers/teachers working with school-age populations. Upon completion, students should be able to list, discuss, and explain advanced current topics and issues surrounding school-aged populations.

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.

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.

ELC 233 Energy Management 2 2 3
 Prerequisites: None
 Corequisites: None

This course covers energy management principles and techniques typical of those found in industry and commercial facilities, including load control and peak demand reduction systems. Topics include load and peak demand calculations, load shedding, load balance and power factor, priority scheduling, remote sensing and control, and supplementary/alternative energy sources. Upon completion, students should be able to determine energy management parameters, calculate demand and energy use, propose energy management procedures, and implement alternative energy sources.

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.

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.

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.

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in English composition.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in English composition.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in English composition.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in English composition.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor and/or elective course requirement.*

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

Prerequisites: ENG 112, ENG 113, or ENG 114
 Corequisites: None

This course covers selected works in American literature from its beginnings to 1865. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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

Prerequisites: ENG 112, ENG 113, or ENG 114
 Corequisites: None

This course covers selected works in American literature from 1865 to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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

Prerequisites: ENG 112, ENG 113, or ENG 114
 Corequisites: None

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

should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

This course covers selected works in British literature from the Romantic Period to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to literary works in their historical and cultural contexts. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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

Prerequisites: ENG 112, ENG 113, or ENG 114

Corequisites: None

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

analyze, and respond to selected works. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

ENG 262 World Literature II (College Transfer) 3 0 3
 Prerequisites: ENG 112, ENG 113, or ENG 114
 Corequisites: None

This course introduces selected works from the Pacific, Asia, Africa, Europe, and the Americas from the eighteenth century to the present. Emphasis is placed on historical background, cultural context, and literary analysis of selected prose, poetry, and drama. Upon completion, students should be able to interpret, analyze, and respond to selected works. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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.

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.

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 for foodservice operations.

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.

GEO - Geography

GEO	111	World Regional Geography (College Transfer)	3	0	3
Prerequisites:	None				
Corequisites:	None				

This course introduces the regional concept which emphasizes the spatial association of people and their environment. Emphasis is placed on the physical, cultural, and economic systems that interact to produce the distinct regions of the earth. Upon completion, students should be able to describe variations in physical and cultural features of a region and demonstrate an understanding of their functional relationships. This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.

GEL - Geology

GEL	111	Introductory Geology (College Transfer)	3	2	4
Prerequisites:	None				
Corequisites:	None				

This course introduces basic landforms and geological processes. Topics include rocks, minerals, volcanoes, fluvial processes, geological history, plate tectonics, glaciers, and coastal dynamics. Upon completion, students should be able to describe basic geological processes that shape the earth. This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science

GEL	120	Physical Geology (College Transfer)	3	2	4
Prerequisites:	None				
Corequisites:	None				

This course provides a study of the structure and composition of the earth's crust. Emphasis is placed on weathering, erosional and depositional processes, mountain building forces, rocks and minerals, and structural changes. Upon completion, students should be able to explain the structure, composition, and formation of the earth's crust. This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor and/or elective course requirement.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor and/or elective course requirement.*

HIS - History

HIS 121 Western Civilization 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

HIS 122 Western Civilization 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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

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

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

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. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor 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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

HUM	121	The Nature of America (College Transfer)	3	0	3
Prerequisites:	None				
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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course 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
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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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

LAT	112	Elementary Latin II (College Transfer)	3	0	3
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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 for transfer the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

MAS - Masonry

MAS	110	Masonry I	5	15	10
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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
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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, students 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.

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 and MAT 070
 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 115 Mathematical Models 2 2 3
 Prerequisites: Take one set:
 Set 1: MAT 060 and MAT 070
 Set 2: MAT 060 and MAT 080
 Set 3: MAT 060 and MAT 090
 Set 4: MAT 095 Set 5: MAT 120
 Set 6: MAT 121 Set 7: MAT 161
 Set 8: MAT 171 Set 9: 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.

MAT 140 Survey of Mathematics (College Transfer) 3 0 3
 Prerequisites: Take one set:
 Set 1: MAT 060 and MAT 070

Set 2: MAT 060 and MAT 080
 Set 3: MAT 060 and MAT 090
 Set 4: MAT 095 Set 5: MAT 120
 Set 6: MAT 121 Set 7: MAT 161
 Set 8: MAT 171 Set 9: 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. *Under the Comprehensive Articulation Agreement and ICAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.*

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

Prerequisites: Take one set:
 Set 1: MAT 060 and MAT 070
 Set 2: MAT 060 and MAT 080
 Set 3: MAT 060 and MAT 090
 Set 4: MAT 095 Set 5: MAT 120
 Set 6: MAT 121 Set 7: MAT 161
 Set 8: MAT 171 Set 9: 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. *Under the Comprehensive Articulation Agreement and ICAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.*

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. *Under the Comprehensive Articulation Agreement and ICAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.*

MAT 151	Statistics I (College Transfer)	3	0	3
Prerequisites:	Take one set: Set 1: MAT 060 and MAT 070 Set 2: MAT 060 and MAT 080 Set 3: MAT 060 and MAT 090 Set 4: MAT 095 Set 5: MAT 120 Set 6: MAT 121 Set 7: MAT 161 Set 8: MAT 171 Set 9: 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Mathematics (Quantitative).*

MAT 161	College Algebra (College Transfer)	3	0	3
Prerequisites:	Take one set: Set 1: MAT 060 and MAT 080 Set 2: MAT 060 and MAT 090 Set 3: 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. *Under the Comprehensive Articulation Agreement and ICAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.*

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. *Under the Comprehensive Articulation Agreement and ICAA, this course satisfies the general education Mathematics requirement for the AA and AFA degrees. It does not satisfy the general education Mathematics requirement for the AS degree.*

MAT 171 Precalculus Algebra (College Transfer) 3 0 3

Prerequisites: Take one set:
Set 1: MAT 060 and MAT 080
Set 2: MAT 060 and MAT 090
Set 3: MAT 095
Set 4: 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Mathematics.*

MAT 171A Precalculus Algebra Lab (College Transfer) 0 2 1

Prerequisites: Take one set:
Set 1: MAT 060 and MAT 080
Set 2: MAT 060 and MAT 090
Set 3: MAT 095
Set 4: MAT 161
Corequisites: MAT 171

This course is a laboratory for MAT 171. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate effectively. This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor and/or elective course requirement.

MAT 172 Precalculus Trigonometry (College Transfer) 3 0 3

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Mathematics.*

MAT 172A Precalculus Trig Lab (College Transfer) 0 2 1

Prerequisites: MAT 171
Corequisites: MAT 172

This course is a laboratory for MAT 172. Emphasis is placed on experiences that enhance the materials presented in the class. Upon completion, students should be able to solve problems, apply critical thinking, work in teams, and communicate

effectively. This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor and/or elective course requirement.

MAT 263 Brief Calculus (College Transfer) 3 0 3

Prerequisites: MAT 161, MAT 171, or MAT 175

Corequisites: None

This course is designed for students needing only 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Mathematics.*

MAT 271 Calculus I (College Transfer) 3 2 4

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Mathematics.*

MAT 272 Calculus II (College Transfer) 3 2 4

Prerequisites: MAT 271

Corequisites: None

This course provides a rigorous treatment of integration and is the second calculus course in a three-course sequence. Topics include applications of definite integrals, techniques of integration, indeterminate forms, improper integrals, infinite series, conic sections, parametric equations, polar coordinates, and differential equations. Upon completion, students should be able to use integration and approximation techniques to solve application problems. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor and/or elective course requirement.*

MED - Medical Assisting

MED	110	Orientation to Med Assist	1	0	0	1
Prerequisites:	Admission to Medical Assisting Program					
Corequisites:	MED 130					

This course covers the history of medicine and the role of the medical assistant in the health care setting. Emphasis is placed on professionalism, communication, attitude, behaviors, and duties in the medical environment. Upon completion, students should be able to project a positive attitude and promote the profession of medical assisting.

MED	112	Ori to Clinic Setting I	0	0	3	1
Prerequisites:	MED 110, MED 131, MED 140, MED 150, MED 182, MED 122, MED 232					
Corequisites:	PSY 150 and ENG 115					

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.

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.

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.

MED 130 Admin Office Proc I 1 2 0 2
 Prerequisites: None
 Corequisites: ENG 111, CIS 111, ACA 115, MED 110

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: MED 130
 Corequisites: OST 136

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

MED 140 Exam Room Procedures I 3 4 0 5
 Prerequisites: BIO 163
 Corequisites: MAT 115

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 Practicum 0 0 15 5
 Prerequisites: MED 112, MED 118, MED 240, MED 250, MED 272, MED 276
 Corequisites: MED 262

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: MED 260

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.

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.

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.

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a pre-major and/or elective course requirement.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a premajor and/or elective course requirement.*

MUS 210 History of Rock Music (College Transfer) 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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.

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 Mark-up language (WML), link manager, service discovery protocol, transport layer and frequency band. Upon completion, students should be able to discuss in written and oral form protocols and procedures required for different wireless applications.

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 or CET 211				
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:	ACA 115, BIO 163, NUR 117					

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:	ACA 115, BIO 163, NUR 101, NUR 117					
Corequisites:	ENG 111, PSY 150					

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:	ENG 111, NUR 102, PSY 150					
Corequisites:	None					

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

NUR	111	Intro to Health Concepts	4	6	6	8
Prerequisites:	Admission in ADN Program					
Corequisites:	BIO 168, CIS 111					

This course introduces the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts within each domain

including medication administration, assessment, nutrition, ethics, interdisciplinary teams, informatics, evidence-based practice, individual-centered care, and quality improvement. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 112 Health-Illness Concepts 3 0 6 5
 Prerequisites: NUR 111
 Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of acid-base, metabolism, cellular regulation, oxygenation, infection, stress/coping, health-wellness-illness, communication, caring interventions, managing care, safety, quality improvement, and informatics. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 113 Family Health Concepts 3 0 6 5
 Prerequisites: NUR 111
 Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of oxygenation, sexuality, reproduction, grief/loss, mood/affect, behaviors, development, family, health-wellness-illness, communication, caring interventions, managing care, safety, and advocacy. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 114 Holistic Health Concepts 3 0 6 5
 Prerequisites: NUR 111
 Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, inflammation, sensory perception, stress/coping, mood/affect, cognition, self, violence, health-wellness-illness, professional behaviors, caring interventions, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 117 Pharmacology 1 3 0 2
 Prerequisites: None
 Corequisites: None

This course introduces information concerning sources, effects, legalities, and the safe use of medications as therapeutic agents. Emphasis is placed on nursing responsibility, accountability, pharmacokinetics, routes of medication administration, contraindications and side effects. Upon completion, students should be able to compute dosages and administer medication safely.

NUR 211 Health Care Concepts 3 0 6 5
 Prerequisites: NUR 111
 Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of cellular regulation, perfusion, infection, immunity, mobility, comfort, behaviors, health-wellness-illness, clinical decision-making, caring interventions, managing care, and safety. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 212 Health System Concepts 3 0 6 5
 Prerequisites: NUR 111
 Corequisites: None

This course is designed to further develop the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of grief/loss, violence, health-wellness-illness, collaboration, managing care, safety, advocacy, legal issues, policy, healthcare systems, ethics, accountability, and evidence-based practice. Upon completion, students should be able to provide safe nursing care incorporating the concepts identified in this course.

NUR 213 Complex Health Concepts 4 3 15 10
 Prerequisites: NUR 111, NUR 112, NUR 113, NUR 114, NUR 211, and NUR 212
 Corequisites: None

This course is designed to assimilate the concepts within the three domains of the individual, healthcare, and nursing. Emphasis is placed on the concepts of fluid/electrolytes, metabolism, perfusion, mobility, stress/coping, violence, health-wellness-illness, professional behaviors, caring interventions, managing care, healthcare systems, and quality improvement. Upon completion, students should be able to demonstrate the knowledge, skills, and attitudes necessary to provide quality, individualized, entry level nursing care.

OST - 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.

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.

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.

OST 181 Intro 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.

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.

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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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*

PED	118	Weight Training II (College Transfer)	0	3	1
Prerequisites:	PED 117				
Corequisites:	None				

This course covers advanced levels of weight training. Emphasis is placed on meeting 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 Greek 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course Humanities/Fine Arts.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Natural Science.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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.

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.

RED 111 Crit 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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.

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.

SOC 210 Introduction to Sociology 3 0 3
(College Transfer)
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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

SOC 213 Sociology of the Family 3 0 3
(College Transfer)
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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

SOC 220 Social Problems 3 0 3
(College Transfer)
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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Social/Behavioral Sciences.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 for transfer under the Comprehensive Articulation Agreement and ICAA 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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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 for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 (College Transfer) 3 0 3

Prerequisites: SPA 112

Corequisites: None

This course provides a review and expansion of the essential skills of the Spanish language. Emphasis is placed on the study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate effectively, accurately, and creatively about the past, present, and future. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course in Humanities/Fine Arts.*

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

This course provides a continuation of SPA 211. Emphasis is placed on the continuing study of authentic and representative literary and cultural texts. Upon completion, students should be able to communicate spontaneously and accurately with increasing complexity and sophistication. *This course has been approved for transfer under the Comprehensive Articulation Agreement and ICAA as a general education course 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 rejection 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: None
 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 World Wide Web Consortium (W3C) standard markup language and services of the Internet. Topics include creating web pages, search engines, FTP, and other related topics. Upon completion, students should be able to deploy a hand-coded website created with mark-up language, and effectively use and understand the function of search engines.

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.



