LOWER DIVISION COLLEGE CREDIT COURSE DESCRIPTIONS
ACG 2001 △ Accounting I, 3 credit hours, (Fall, Spring, Summer)
Accounting information system; double entry system, income and adjustments; accounting cycle completion; merchandise and special journals; internal control and voucher system; short-term liquid assets; inventory methods; liabilities and payroll; acquire, depreciate, and dispose of assets; capital or expenditures; asset depletion and amortization; code of professional ethics. Prerequisites: although not required, MTB 1103 is highly recommended.

ACG 2011 Accounting II, 3 credit hours, (Fall, Spring, Summer)
Accounting for corporations; long-term liabilities, using future values and present values; statement of cash flows; financial statement analysis, and international accounting. Prerequisite: ACG 2001

ACG 2071 Managerial Accounting, 3 credit hours, (Fall, Spring, Summer)
The basic principles of accounting techniques for the preparation of internal reports related to the management of the firm and the interpretation of financial data useful in the decision-making process within the economic framework of the firm. Prerequisites: ACG 2011 or ACG 2021

ACG 2450 △ Computer Applications for Accounting, 3 credit hours, (Offered as needed)
An introductory course in computerized integrated accounting procedures found in the microcomputer environment. Includes application of software designed for general ledger, accounts payable and receivable, financial statement analysis, purchasing and sales order processing, fixed assets, payroll, inventory and departmental accounting. Prerequisite: ACG 2001

ACO 1806 * Payroll Accounting, 3 credit hours, (Offered as needed)
Introduction to the theory, laws and procedures related to payroll activities of a business. Topics include payroll and personnel records, federal payroll laws, payroll operations, computerized payroll systems, and preparation of payroll registers, earnings records, and payroll tax forms. Prerequisite: ACG 2001

AMH 1041 American Civilization, 3 credit hours, (Offered as needed)
Unified history of social and intellectual issues. A study of major American concerns and issues, the proposals, their formative ideas, the resolution attained in an emerging pattern of American character and heritage. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

AMH 2010 American History I, 3 credit hours, (Fall, Spring, Summer)
American History to 1877; describes the social, political, and economic development of the American people against the geographical background of the New World. Particular emphasis on American intellectual and political thought leading to the emergence of basic American character, ideas and attitudes. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

AMH 2061 Southern Cultural History, 3 credit hours, (Offered as needed)
Southern Cultural History – describing the social, political, and economic development of the South. Particular emphasis on Southern community, music, folk art, folklore and other elements associated with the American South from the Civil War to the present.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△Technology-Across-the-Curriculum Course.
AMH 2070  
Florida History,  
3 credit hours,  
(Of need)  
A survey of Florida history from the colonial period through the 20th century.

AMH 2071  
Survey of Early History of Florida,  
3 credit hours,  
(Of need)  
A survey of Florida history from pre-Columbian populations through the Territorial Period.

AML 2010  
American Literature I,  
3 credit hours,  
(Of need)  
A course in American Literature from the Colonial period to the Civil War. This course may be used for Humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: ENC 1101.

AML 2020  
American Literature II,  
3 credit hours,  
(Of need)  
A course in American Literature from Civil War to present. This course may be used for Humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: ENC 1101.

ANT 2159C  
Florida Southeast US Archaeology,  
3 credit hours,  
(Of need)  
Introduction to special topics in anthropology and archaeology. Example: field experience in archaeology, brief introduction to prehistoric native American cultures in Florida and the southeastern United States and field experience excavating a prehistoric site in Okaloosa County.

ANT 2930  
Special Topics in Anthro/Archaeology,  
3 credit hours,  
(Of need)  
Introduction to special topics in anthropology and archaeology. Example: Survey and introduction to pre-historic and early historic Native American cultures in Florida and the Southeast U.S. Prerequisite: permission of instructor.

ARC 1131  
Architectural Presentation,  
3 credit hours,  
(Of need)  
This course introduces basic ideas and presentation techniques directed towards developing design skills, such as drawing, perspective sketching, and graphics using a variety of media to include: pencil, ink, colored pencils, markers, and model building to be used in architectural presentations. This course is designed as part of an articulation agreement with Florida A & M University; students interested in transferring to another upper division school should consult with an advisor. Prerequisite: ETD 1102.

ARC 1301C  
Design 1.1,  
4 credit hours,  
(Spring, Summer, Fall)  
The primary foci of this course are the development of two and three-dimensional graphic skills and the ability to think spatially and to manipulate elements in space. Analysis and design exercises are located primarily in abstract two/three dimensional space and deal with topics such as figure/ground relationships, line/plane/mass, the idea of systems, networks, repetition, and the relation of part to the whole. This course is designed as part of an articulation agreement with Florida A & M University; students interested in transferring to another upper division school should consult with an advisor.

ARC 2201  
Theory of Architecture,  
3 credit hours,  
(Of need)  
An introduction to architectural theory, selected contemporary architectural theories and movements, and their evolution and historical basis. This course is designed as part of an articulation agreement with Florida A & M University; students interested in transferring to another upper division school should consult with an advisor. Prerequisite: ETD 1102.

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
ARC 2303A
Design 2.1, 6 credit hours, (Offered as needed)
Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation, structure, resolution of form, space, and place making. This course is designed as part of an articulation agreement with Florida A & M University; students interested in transferring to another upper division school should consult with an advisor. Prerequisite: ARC 2201

ARC 2304
Design 2.2, 6 credit hours, (Offered as needed)
Application of two and three-dimensional design principles learned in first-year design, in preparation for whole building design in third year. Small building projects adding programmatic responsibilities to the design agenda. Emphasis on programmatic issues internal to the building such as function, circulation, structure, resolution of form, space, and place making, and human behavior. Prerequisite: ARC 2303A

ARC 2472
Introduction to the Technology of Architecture, 4 credit hours, (Offered as needed)
This course is the beginning of the technology sequence in the areas of structures, environment technology, and materials and methods of construction. It introduces themes such as the response of buildings to the natural environment, the strength, stiffness, and durability in building materials, and the quantitative method of analysis and design of building assemblies and support systems. It explores the relationship between building technology and the social, aesthetic, environmental and economic aspects of the settings in which buildings are located, and how these factors relate to the process of architectural design. This course is designed as part of an articulation agreement with Florida A & M University; students interested in transferring to another upper division school should consult with an advisor.

ARC 2501
Architectural Structures I, 3 credit hours, (Offered as needed)
The emphasis of the course is on the development of the principles of statics and the application of these principles to the analysis and design of structural systems, primarily column, beam, slab systems, and the truss systems. The course builds on the basic ideas of structural form and material properties developed in Introduction to the Technology of Architecture. Prerequisite: any college level physics or calculus course, and concurrent enrollment in ARC 2472. This course is designed as part of an articulation agreement with Florida A & M University; students interested in transferring to another upper division school should consult with an advisor.

ARC 2701
Survey of History of Architecture, Part I, 3 credit hours, (Offered as needed)
A critical exploration of the history and theory of architecture from pre-history through the end of the 13th Century. Examination of the making and intent of significant buildings and sites tracing the developments that have given meaning to the built environment and brought order to the tectonics of architecture. This course is designed as part of an articulation agreement with Florida A & M University; students interested in transferring to another upper division school should consult with an advisor.

ARH 1000
Humanities Art, 3 credit hours, (Fall, Spring, Summer)
This course offers a study in the basic concepts of art, including function, style and structure with emphasis on the interaction of medium and meaning and problems of art criticism. This class does not fulfill the art history requirements for art majors, but compliments the art major’s course of study as an elective. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

ARH 2050†
Art History: Pre-Renaissance, 3 credit hours, (Fall, Spring, Summer)
Survey of significant contributions in art from prehistoric through Renaissance. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

ARH 2051†
Art History: Renaissance-18th Century Neo-Classicism, 3 credit hours, (Fall, Spring, Summer)
Survey of significant contributions in art from Renaissance through Contemporary. Art will be considered in terms of stylistic qualities as well as iconography and historical context. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

❖ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
ARH 2060 †
Architecture History,
3 credit hours,
(Fall, Spring, Summer)
Survey of significant contributions in architecture from prehistoric to modern times. Architecture will be considered in terms of stylistic qualities, structural type, and intended usage. Topics will be addressed according to historical content, societal background, and geographical location. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

ARH 2402 †
Art History: Modern Art,
3 credit hours,
(Summer and as needed)
Surveys and analyzes the major artistic periods and movements from 18th century Neo-Classicism to present. Required for all Art majors. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

ARH 2930
Art History – Special Topics,
3 credit hours,
(Fall, Spring Summer)
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule. Departmental approval is required. Placement test may be required. NOTE: This course may be used as a Gordon Rule Writing-Across-the-Curriculum-Course. This course may be taken up to four times for credit.

ART 1203C
Three-Dimensional Design,
3 credit hours,
(Fall, Spring)
An introductory course, both theoretical and applied, dealing with principles of organization and the elements of design in a three-dimensional format. Various materials, tools, and surfaces are used to explore 3-D form. This is a foundation course. See page 47 regarding audit enrollment.

ART 1300C
Drawing I,
3 credit hours,
(Fall, Spring)
Basic drawing course covering different drawing media, line, form, shape, value and spatial relationships. Drawing problems involving a variety of subject matter will be explored. Emphasis is on value, drawing techniques, spatial relationships between shapes and composition. See page 47 regarding audit enrollment.

ART 1301C
Drawing II,
3 credit hours,
(Fall, Spring)
Continued study of drawing techniques explored in Drawing I. Provides experience with more complex drawing problems. Emphasis is on self-expression, value, color theory, and composition. A variety of subject matter and drawing media will be explored. Prerequisite: ART 1300C. See page 47 regarding audit enrollment.

ART 1600C △
Computer Art I,
3 credit hours,
(Offered as needed)
A beginning course to develop basic technical and conceptual skills with a focus on an industry-standard vector-based drawing program. Students will create logos and illustrations typical of graphic design challenges.

ART 1750C
Pottery I,
3 credit hours,
(Fall, Spring, Summer)
The students shall be exposed to the production of pottery utilizing all known hand building techniques. Also includes introduction to potter’s wheel and basic wheel fundamentals. The first half of course is hand building, the second half is devoted to development of skills on the potter’s wheel. Students also learn how to glaze pottery and make glass. See page 47 regarding audit enrollment.

△ Technology-Across-the-Curriculum Course.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.
Sound This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
ART 2400C  
Introduction to Printmaking I,  
3 credit hours,  
(Fall, Spring)  
Introduction to various printmaking techniques possibly including block printing, calligraphy, monotype, etching, and serigraphy. Content varies according to instructor. Two-dimensional design is recommended. Invites to all students. See page 47 regarding audit enrollment.

ART 2401C  
Printmaking II,  
3 credit hours,  
(Of Offered as needed)  
This class is a continuation of printmaking techniques including blockprinting, calligraphy, monotype, etching and serigraphy. Content varies according to instructor. Intro to Printmaking required. Prerequisite: ART 2400C. See page 47 regarding audit enrollment.

ART 2500C  
Painting I,  
3 credit hours,  
(Fall, Spring)  
Course will include design elements, composition and spatial relationships. Emphasis is on color theory, color mixing, and execution thereof within a variety of subject matter. See page 47 regarding audit enrollment.

ART 2501C  
Painting II,  
3 credit hours,  
(Fall, Spring)  
This course is a continuation of Painting I ART 2500C with emphasis on further exploration of student’s personal style and original techniques. Further experimentation in abstraction and emotional aspects of form and color are explored and expressed. Prerequisites: ART 2500C. See page 47 regarding audit enrollment.

ART 2540C  
Water Color I,  
3 credit hours,  
(Fall, Spring)  
An introduction to water media techniques applied to various subject matter through demonstrations and various lab experiences. Open to all students. See page 47 regarding audit enrollment.

ART 2541C  
Water Color II,  
3 credit hours,  
(Fall, Spring)  
Allows continued experience in more complex water color technique and subject matter. Emphasis is on composition and individual expression. Prerequisite: ART 2540C. See page 47 regarding audit enrollment.

ART 2601C  
Computer Art I,  
3 credit hours,  
(Of Offered as needed)  
An advanced graphic design course building upon the skills covered in Computer Art I; the course includes increased challenges relating to conceptual skills and multi-software integration relating to typical print-based design problems. Access to a high quality film or digital camera is required. Prerequisite: ART 1600C

ART 2602C  
Digital Imaging I,  
3 credit hours,  
(Of Offered as needed)  
A digital illustration production course with a strong emphasis on concept development and image making skills. Students will create complex imagery based on manipulations of photographs or traditional drawings and paintings with an industry-standard image editing/manipulation software. Access to a high quality film or digital camera is required.

ART 2603C  
Digital Imaging II,  
4 credit hours,  
(Of Offered as needed)  
A continuing course which expands upon the technical and conceptual foundation laid in Digital Imaging I. Students will explore advanced software techniques and greater challenges of personal or commercial expression in digital media. Prerequisite: ART 2602C

ART 2701C  
Sculpture I,  
3 credit hours,  
(Fall, Spring)  
An introductory course in the technical and aesthetic consideration of sculptural forms. Includes a wide range of materials and expressions, representing past and present sculptural methods. See page 47 regarding audit enrollment.

ART 2703C  
Sculpture II,  
3 credit hours,  
(Fall, Spring)  
Allows continued experience in more complex three-dimensional techniques; emphasis on individual projects and conceptual approach. Prerequisite: ART 2701C. See page 47 regarding audit enrollment.

ART 2834C  
Gallery Practices,  
3 credit hours,  
(Of Offered as needed)  
The principles of Art Gallery practices and operations. Both theoretical and practical experiences will be obtained through lectures, field trips and class projects.

ART 2955  
Portfolio Development,  
3 credit hours,  
(Of Offered as needed)  
Development of a working portfolio through studio project aimed at fulfilling the general requirements the average company, university, art school or advertising agency looks for in a portfolio presentation. Prerequisite: ART 1201C, ART 1300C

ASL 1140  
American Sign Language I,  
4 credit hours,  
(Fall)  
To introduce the student to the basic vocabulary and finger spelling of American Sign Language. Emphasis will be on learning to express this language in a simple form and have a basic receptive language competency.

ASL 1150  
American Sign Language II,  
4 credit hours,  
(Spring)  
To increase the student’s ASL vocabulary and use more complex expression of thoughts, ideas, and emotions. To increase the receptive and expressive proficiency of the student in both sign and finger spelling. Prerequisite: ASL 1140

△Technology-Across-the-Curriculum Course.

◊ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
BCN 1567* Plumbing and Gas Construction Practices, 3 credit hours, (Offered as needed)
A course to familiarize students with Plumbing and Gas code requirements, terminology, methods, practices, processes and safety and health used in building construction.

BCN 2231 Building Construction Materials and Processes II, 3 credit hours, (Offered as needed)
Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry. The focus of the course will cover Divisions 9 through 16 of the construction industry.

BCN 2560* Mechanical Systems in Construction, 3 credit hours, (Offered as needed)
A course to familiarize students with mechanical trades terminology, methods, practices, code requirements processes, and safety and health criteria in mechanical construction.

BCN 2721* Construction Management/Planning, 3 credit hours, (Offered as needed)
The course covers project development and organization from pre-construction site investigation to final completion. The course will include the management of project estimates, plans, schedules, operations and safety. The student will become knowledgeable about documents used in the construction industry for bid, contracts, zoning, permits, bonds, loans specifications and drawings. Cost engineering, procurement, value engineering and quality assurance will be covered. Cost management through job cost analysis and purchase order systems will also be covered.

BCT 2761* Structural Systems in Construction, 3 credit hours, (Offered as needed)
A course to familiarize students with structural terminology, practices, methods, code requirements and safety and health criteria in construction.

BCT 1706* Construction Documentation, 3 credit hours, (Offered as needed)
A course to familiarize a student with documents used in the Construction Industry to advertise for bids, contracts, change orders, extras, specification, insurance and bid bonds.

BCT 1763* Construction Safety and Health, 3 credit hours, (Offered as needed)
A basic course in construction safety and health, covering such topics as: theories of accident causation; workplace hazards; hazard analysis and prevention; accident reporting; OSHA construction standard and safety practices; environmental safety; violence in the workplace; ergonomics; ethics and safety; workers’ compensation; and stress on the job.

BCT 2770* Construction Estimating, 3 credit hours, (Offered as needed)
A course in estimating as it relates to the construction industry covering references, estimating methods, take-off organization and presentation; material take-off, cost estimating in heavy construction, mathematical formulas for estimating, quantity take-off from plan review, and computer estimating overview. Prerequisites: BCN 1230, BCN 1272

BCT 1010 Botany, 4 credit hours, (Spring)
A course designed to give the student an introduction to knowledge about botany with emphasis on the flowering plants, and to show our dependence on plants to sustain not only human life but all other living organisms.

BRC 1001* Introduction to Banking, 3 credit hours, (Offered as needed)
Designed to give students a broad understanding of the nature of banking and its relationship to the U.S. economy.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

◊ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
BSC 1005 △
General Biology,
4 credit hours,
(Fall, Spring, Summer)
The principles of biology are included. Human Biology is emphasized. Man's effect on the environment is considered wherever appropriate. (NO LABORATORY — Not for majors in Biology).

BSC 1005L
Biology Lab,
1 credit hour,
(Of Offered as needed)
Laboratory for general biology. Experimental methodology and technique. Not recommended for biology majors. Pre or corequisite: BSC 1005 or equivalent.

BSC 1010C △
Principles of Biology I,
4 credit hours,
(Of Offered as needed)
A study of the structure and function of the major biological molecules and the organization of these molecules at the subcellular level; of cellular growth including bioenergetics, metabolism and its control, and the movement and incorporation of macromolecules as related to cell expansion and repair; and the study of the control of cellular growth including both genetic and biochemical control mechanisms. Required for Biology, Pre-Med, and most Pre-Professional Science majors. Prerequisites: high school biology and chemistry or CHM 1025 and eligibility to enroll in MAC 1105.

BSC 1011C
Principles of Biology II,
4 credit hours,
(Of Offered as needed)
A continuation of BSC 1010C. A survey of organisms with emphasis on plants and animals. A survey of vertebrate systems with emphasis on applied physiology. Evolution, inheritance and ecology in major phyla or divisions will be included. Emphasis on man's role in shaping the biosphere. Required for Biology, Pre-Med, and most Pre-Professional Science majors. Prerequisite: BSC 1010C

BSC 1080
Essentials of Anatomy and Physiology,
3 credit hours,
(Of Offered as needed)
This course surveys basic structure and function of the human body with emphasis on terminology and anatomy. This course may be used as a General Educational elective for A.A.S. students only.

BSC 1085C △
Anatomy & Physiology I,
4 credit hours,
(Fall, Spring, Summer)
A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

BSC 1086C
Anatomy and Physiology II,
4 credit hours,
(Fall, Spring, Summer)
A study of the human organism to include the cardiovascular system, the fluid electrolyte balance, and the respiratory, excretory, endocrine, reproductive, gastrointestinal and immune systems.

BSC 1250C
Introductory Tropical Biology,
4 credit hours,
(Of Offered as needed)
An introduction to the Estuarine and Marine biota of tropical regions to include saltmarsh, mangrove, sandy, and coral shorelines. Emphasis will be placed on energy transfer and zonation. Prerequisite: one college level science course.

BSC 1905
Independent Study – Biology,
1 credit hour,
(Fall, Spring, Summer)
A course designed to (1) allow a student to complete part of a course taken elsewhere and thereby complete general education requirements, (2) to go deeper into special areas of interest. This course may be taken up to four times for credit.

BSC 2020C
Human Structure and Function,
4 credit hours,
(Fall, Spring, Summer)
A study of the structures and functions of the human body with emphasis on system integrations (homeostasis) and an introduction to system disorders and pathologies.

BSC 2946
Directed Work Study – Biology,
1 credit hour,
(Of Offered as needed)
Practical experience with use and maintenance of lab equipment and materials. Participation in support activities and organizational routines of lab courses. Course fees may be waived. May be taken up to four times for credit. Departmental approval following interview is required.

BUL 2241
Business Law I,
3 credit hours,
(Fall, Spring, Summer)

BUL 2242
Business Law II,
3 credit hours,
(Fall, Spring, Summer)

CCJ 1000*
Introduction to Criminology,
3 credit hours,
(Spring)
A study of the nature and causes of crime and delinquency; the development of delinquent and criminal behavior; specific behavioral problems of addicts, compulsive and habitual offenders and juvenile offenders. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

CCJ 1020
Introduction to Criminal Justice,
3 credit hours,
(Fall, Spring, Summer)
An introduction to the philosophical and historical background of law enforcement and the administration of criminal justice. Organization and jurisdiction of local, state, and federal law enforcement agencies. Court and Criminal procedures. Career opportunities in Criminal Justice field.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△ Technology-Across-the-Curriculum
A course designed to provide the student with an overview of narcotics and the role of the investigative agencies, drug traffic flow patterns, major classes of drugs and the drug profit traffic. Instruction will cover techniques of investigative observation, patrol and case development, physical identification of drugs, symptoms of abuse, methods of abuse and appropriate Florida Statutes. This is also a Criminal Justice Standards and Training Commission advanced course.

CCJ 1761* Women in Criminal Justice, 3 credit hours,  
(Offered as needed)  
This course is designed to provide students with a wide perspective of female roles in the criminal justice system.

CCJ 1935* Criminal Justice Seminar, 3 credit hours,  
(Offered as needed)  
Exploration, development and discussion of contemporary problems in the Criminal Justice System.

CCJ 1941* Internship – Criminal Justice, 3 credit hours,  
(Offered as needed)  
On-the-job training in the programs in which the student is enrolled. The student is under the supervision at work of a qualified supervisor appointed by the respective agency. The supervisor will rate the student’s performance, knowledge, comprehension, dependability, initiative, cooperativeness and total performance. A project paper or approved project will be submitted by the student two weeks prior to the close of the semester. This course may be repeated twice for a total of 6 semester hours.

CCJ 2680* Domestic Intervention, 3 credit hours,  
(Offered as needed)  
This course is a part of the Criminal Justice Standards and Training Commission Approved Advanced Training Program. This course is designed to provide the officer with an enhanced awareness of domestic intervention symptoms and techniques, including information and case studies on specific domestic and social problems. Prerequisites: Basic Recruit Training Course.

This introductory course in narcotics investigation and identification is designed to provide the student with
CDA 2523 *△
Windows Client Operating System, 3 credit hours, (Fall, Spring, Summer)
This course addresses the implementation and desktop support needs of the MS client software, including installation, configuration and management of hardware and file systems, user profiles, remove users, and monitoring of resources and performance. Prerequisite: CDA 2500 or equivalent. This course prepares the student for the MCP exam, a core requirement for Windows MCSE or MCSA.

CDA 2524 *△
Novell Administration I, 3 credit hours, (Offered as needed)
This course will provide students with the opportunity to develop the knowledge and skills necessary for the design and implementation of a Netware System to include: network service and support, various network technologies; Netware printing, as well as Netware administration, installation and configuration. Prerequisites: CDA 2500 with grade of “C” or higher, or equivalent.

CDA 2525 *△
Windows Server Environment, 3 credit hours, (Offered as needed)
This course will provide students with the opportunity to develop the skills required to manage accounts and resources, maintain server resources, monitor server performance, and safeguard data. Prerequisite: CDA 2500 with grade of “C” or higher, or equivalent.

CDA 2529 *△
Networks and Layers, Networking Devices, IP Addressing, ARP, and RARP, Media and Design, Topology, Structured Cabling, Electricity, and Electronics and Network Management.

CET 1610C *△
Router Theory, 3 credit hours, (Offered as needed)
Basic Router terminology and configurations are studied in this course. The student will study Router Components, Router Configuration, IOS, TCP/IP, IP Addressing, and Router Protocols. This is one of the four courses designed to prepare a student to take the Cisco Certified Network Associate Exam (CCNA). Prerequisite: CET 1600C

CET 1630C *△
Network Cabling – Copper Media, 3 credit hours, (Offered as needed)
This course is designed for computer repair and network technicians. It will provide the students with the knowledge and skills necessary to become entry-level technicians in the data cabling industry. The emphasis of the course is on tool use, construction techniques, industry standards, troubleshooting and repair of CAT 5 copper media. This course prepares students for introductory, vendor neutral data cabling certification BICSI/ETAI exams.

CET 1632C *△
Network Cabling – Fiber Optic Media, 3 credit hours, (Offered as needed)
This course is designed for computer repair and network technicians. It will provide the students with the knowledge and skills necessary to become entry-level technicians in the data cabling industry. The emphasis of the course is on tool use, construction techniques, industry standards, troubleshooting and repair of fiber optic media. This course prepares students for introductory, vendor neutral data cabling certification BICSI/ETAI exams.

CET 1660 *△
Introduction to Network Security, 3 credit hours, (Fall, Spring, Summer)
This course is designed to introduce students to the terminology and concepts associated with network security, including communication security, infrastructure security, cryptography, access control, authentication, external attack, as well as operational and organizational security. The course is also intended to assist with preparation for the CompTIA Security+ certification.

CET 2171C *△
PC Hardware A+, 3 credit hours, (Offered as needed)
This course is designed to prepare the student to take the A+ Certification exam by teaching the student basic technical skills needed to understand the function and operation of the major elements of personal computer systems, and how to localize and correct common hardware and software problems. Prerequisite: CET 2173C or equivalent.

CET 2173C *△
Microcomputer Servicing, 4 credit hours, (Offered as needed)
This course introduces the PC system, how it works and how the operating system controls it. Also studied are the components which make up the PC system, how to use multimeters and logic probes to make measurements and troubleshoot the system with the aid of diagnostic software. Students will perform fault analysis of simulated PC defects. In addition, students will learn to disassemble, reassemble and modify the PC hardware components.

CET 2178C *△
PC Operating Systems A+, 3 credit hours, (Offered as needed)
This course is designed to prepare the student to take the A+ Certification exam by making the student proficient in personal computer operating systems, including DOS, Win 98 and higher and Win NT. Major topics include disk, file and memory management, system configurations, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, TSRs, and basics system errors. Prerequisite: CET 2171C or equivalent.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△Technology-Across-the-Curriculum Course.
CET 2497 *△
Windows Network Infrastructure, 3 credit hours,
(Offered as needed)
This course addresses the implementation, management and maintenance of server networking technologies. Tasks include implementing routing, managing DHCP, DNS, and WINS, securing IP traffic with IPSec and certificates, and implementing a network access infrastructure with connections for remote access clients. Prerequisite: CET 2525 or equivalent. This course prepares the student for the MCP exam, a core requirement for Windows MCSE or MCSA.

CET 2615C *△
Advanced Router Theory, 3 credit hours,
(Offered as needed)
This course introduces the student to fundamentals of LAN configurations. This is also the third of four courses designed to prepare a student to take the Cisco Certified Network Associate Exam. The student will study LAN Switching, VLLANs, OSPF, EIGRP, VTP, classless routing and Access Lists. Prerequisite: CET 1600C, CET 1610C

CET 2620C *△
Project Based Routing Design and Administration, 3 credit hours,
(Offered as needed)
This course introduces the student to advanced router configurations and network design. This is also the last of four courses designed to prepare a student to take the Cisco Certified Network Associate Exam. The student will study WAN technology and design, PPP, ISDN, Frame Relay, and network management. Prerequisites: CET 1600C, CET 1610C, CET 2615C

CET 2625C *△
Cisco Network Design, 3 credit hours,
(Offered as needed)
Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the Cisco SECUR and CSPFA exams in preparation for the Cisco Firewall Specialist certification. Prerequisites: CET 1600C, CET 1610C, CET 2615C, CET 2620C or CCNA certification.

CET 2685C *△
Fundamentals of Network Security, 3 credit hours,
(Offered as needed)
Introduction to network security and overall security processes. This hands-on, skill-based course focuses on the design and implementation of security solutions to reduce the vulnerability of the network, using VPNs, network routers and a firewall. This course helps prepare the student for the CompTIA Security + certification, and Cisco SECUR and CSPFA exams in preparation for the Cisco Firewall Specialist certification. Prerequisites: CET 1600C, CET 1610C, CET 2615C, and CET 2620C or CCNA certification.

CET 2854C *
Fundamentals of Wireless LANs, 3 credit hours,
(Fall, Spring)
Develop, implement and troubleshoot wireless networks. This hands-on, skill-based course focuses on the design, planning and operation of wireless networks, with an overview of technologies, security, and design best practices. This course helps prepare the student for the Cisco Wireless LAN Support Specialist designation (WLANSE). Prerequisites: CET 1600C, CET 1610C

CGS 1030 *
Computer Basics, 3 credit hours,
(Fall, Spring, Summer)
This is an introductory course for basic computer use, including the Internet. It addresses the use of computers for personal, business, and college purposes. It introduces the Windows operating system and Microsoft Office applications, including Word, Excel, and PowerPoint. Hands-on use of a personal computer is required.

CGS 1172 *
Web-based Programming I, 3 credit hours,
(Offered as needed)
This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating E-Commerce applications. Prerequisite: CGS 2820

CGS 1550 *
Introduction to World Wide Web, 3 credit hours,
(Fall, Spring, Summer)
A hands-on course using computer software (Word processor, spreadsheet and database) to facilitate the activities involved in the business environment. Prerequisite: CGS 1100 or competency exam.

CGS 1760 *
Fundamentals of UNIX, 3 credit hours,
(Offered as needed)
This course is designed to introduce the UNIX operating system to new users. The student will learn fundamental features of the operating system, including file system navigation, file permissions, editors, command shells, and basic network use. Provides a foundation for more advanced courses in administration and certification.

CGS 1843 *
Intro to Electronic Commerce, 3 credit hours,
(Offered as needed)
This course is designed to provide students with an overview of the dynamics of electronic commerce and how it links information technology to business objectives. Course may not transfer to all State University System institutions.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△Technology-Across-the-Curriculum Course.
CGS 2173 △
Web-based Programming II,
3 credit hours,
(Offered as needed)
This course is designed to extend the student’s understanding of web-based programming techniques, and give them practical experience in the use of a range of technologies for creating E-Commerce applications including instruction in the key design principles and implementation techniques for software agents in E-Commerce applications. Prerequisite: CGS 1172

CGS 2541 △
Database Concepts,
3 credit hours,
(Offered as needed)
This course will provide an introduction to data modeling and the design and implementation of relational databases and extend the students’ understanding of the principles and techniques used in the design and implementation of modern database systems. Prerequisite: CGS 1100

CGS 2576 △
Introduction to Microsoft Word,
1 credit hour,
(Offered as needed)
An introduction to Microsoft Word software by emphasizing the functions of the program.

CGS 2763 △
UNIX Administration,
3 credit hours,
(Offered as needed)
This course is designed for network administrators in a UNIX operating environment. UNIX operating system concepts, architecture and administration will be explored using Linux. Includes shell programming, database managements, rapid application development, and programming tools such as PERL and C++. Prerequisites: CDA 2500, CGS 1760

CGS 2820 △
Web Authoring with HTML,
3 credit hours,
(Offered as needed)
This course introduces programming in techniques associated with web-based languages. The student will learn to create innovative and useful windows programs. Topics to be discussed include variables, string handling, loops and arrays, formatting techniques, labels, buttons, menus, loading and saving, error handling, graphics, and linking applications.

CGS 2840 △
Internet E-Commerce Technologies,
3 credit hours,
(Offered as needed)
This course will extend student’s understanding of web-based technologies and enable them to design and implement E-Commerce applications, including an understanding of the design of modern distributed database systems, the supporting network technology and the construction of web-based applications.

CGS 2844 △
E-Commerce Security,
3 credit hours,
(Offered as needed)
This course is designed to provide the student with an understanding of E-Commerce security, and give them practical experience in the use of a range of technologies for insuring security in an E-Commerce application. Prerequisite: CGS 1843

CGS 2930 △
E-Commerce Seminar,
3 credit hours,
(Offered as needed)
Students will apply their understanding of the strategies, tactics, and concepts of electronic commerce. The course stresses the real-world practice of E-Commerce through the development of a comprehensive E-Commerce business project. Course may not transfer to all State University System institutions. Prerequisites: CGS 1172, CGS 1843

CHD 1223*
Guidance for Young Children,
3 credit hours,
(Fall, Spring Summer)
A study of principles, methods, guidance and discipline techniques used to promote positive social development in young children; influence of environment and developmental level of child on social behavior.

CHD 1230*
Child Growth and Development II,
3 credit hours,
(Fall, Spring, Summer)
Study of the physical, emotional, social, and intellectual growth and development of the school age child (6 through 12 years) up to preadolescence. Includes dynamics of behavior, child guidance and needs of exceptional children.

CHD 1312*
Infant and Toddler,
3 credit hours,
(Fall, Spring, Summer)
This course provides the student with information pertinent to the care of infants and toddlers. Special attention is given to selection of developmentally appropriate curriculum. Course work satisfies the Child Development Associate competency standards for infant/toddler.

CHD 1430*
Observing and Recording Child Behavior,
3 credit hours,
(Fall, Spring, Summer)
Designed to increase objectivity and proficiency in observing and interpreting children’s behavior; in addition, to increase awareness of normative patterns of children from birth through five years of age.

CHD 1531*
Parenting Education,
3 credit hours,
(Fall, Spring, Summer)
This course is comprehensive in scope, emphasizing skills and concepts of parenting which include: adjustment to parental roles; parent-child communication, care, growth, and development of children; cultivating strong families; special concerns; alternative family structures; educational institutions working effectively with parents; and agencies and legislation affecting children and parents.

CHD 1534*
Home Visitor Programs I,
2 credit hours,
(Offered as needed)
This course provides the student with information and strategies to successfully implement a home visitor program for families with children ages prenatal to three years.

CHD 1535*
Home Visitor Programs II,
1 credit hour,
(Offered as needed)
This course provides the student with information and strategies to successfully implement a home visitor program for families with children ages three to kindergarten entry.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△ Technology-Across-the-Curriculum Course.
CHD 1800*
**Early Childhood**
Program Administration,
3 credit hours,
*(Fall, Spring, Summer)*
This course provides the student with management and administrative skills related to child care services. Instruction includes: director responsibilities; staff selection, supervision, and evaluation; planning for budget, nutritional services, facility maintenance, health, and safety; and marketing techniques.

CHD 1941*
**Internship: Child Development**, 3 credit hours,
*(Fall, Spring, Summer)*
On-the-job training in Applied Associate of Science degree or College Credit Certificate programs in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor appointed by the respective agency, who works with the NWFSC instructor regarding student’s OJT objectives based on student’s goals and prior training. The supervisor will rate the student’s performance, knowledge, comprehension, dependability, initiative, cooperativeness based on OJT performance. NWFSC instructor will evaluate student OJT experience in consultation with agency supervisor regarding OJT performance and project paper on approved project submitted two weeks prior to close of semester. This course may be repeated four times for a total of 12 semester hours. Prerequisites: CHD 2322, CHD 2432A, DEP 2100

CHD 2322*
**Programs for Young Children**, 3 credit hours,
*(Fall, Spring, Summer)*
Study of principles and practices of programs for young children; current research in early childhood education, role of the teacher, and selection and use of equipment and materials for groups of young children.

CHD 2332A*
**Curriculum for Young Children II**, 3 credit hours,
*(Fall and as needed)*
Study of and development of effective skills and techniques used in program planning and use of creative media for young children. Prerequisite: CHD 2432A

CHD 2334A*
**Curriculum for Young Children III**, 3 credit hours,
*(Spring and as needed)*
Study of the principles, methods, and materials used to assist young children acquire basic skills to use language effectively and competently; evaluation and development of appropriate teaching materials to use with young children. Prerequisite: CHD 2332A

CHD 2337A*
**Curriculum for Young Children IV**, 3 credit hours,
*(Spring and as needed)*
Study of the basic concepts, methods, and materials of mathematics and science appropriate to the education of young children. Identification of the role of staff members in the center for the education of young children. Assignment with young children in community agencies. Prerequisite: CHD 2334A

CHD 2432A*
**Curriculum for Young Children I**, 3 credit hours,
*(Fall, Summer, Spring)*
Study of the techniques of using language arts, science, art, social studies, music, mathematics, and physical activities with young children. Participation in Child Development Education Center.

CHD 2433*
**Child Development Seminar**, 3 credit hours,
*(Offered as needed)*
This course focuses on current trends and issues in the field of early childhood education. The topic will vary based on current trends and issues. This course may be taken up to three times for credit.

CHM 1025L
**Chemical Science Lab**, 1 credit hour,
*(Fall, Spring, Summer)*
A laboratory experience to augment the principles covered in chemical science to include fundamental principles and theories of the dual nature of physical existence, matter and energy; atomic theory; periodicity of elements; dependence of properties on structure; kinetic-molecular theory; the nature of chemical bonding.

CHM 1032C
**General Chemistry for Life Sciences**, 4 credit hours,
*(Fall, Spring, Summer)*
This course is a one-semester introduction to chemistry especially appropriate for those pursuing a degree in a career in an allied health science field, although open to all students. Topics include atomic theory, bonding, nomenclature, gases, acids and bases, stoichiometry, and solutions, with an additional emphasis on reaction rates, equilibria, organic and biochemistry, and organic and biomolecules and their roles and functions in living organisms. Prerequisite: MAT 1033A or appropriate placement test.

CHM 1032L
**General Chemistry for Life Sciences Lab**, 1 credit hour,
*(Fall, Spring, Summer)*
This laboratory course is designed to teach basic chemistry laboratory skills and reinforce topics covered in CHM 1032C and CHM 1025. Among the experiments the student will perform are: basic safety practices in a laboratory setting; learn how to perform density measurements; find the energy content in calories in certain foods; study reaction rates and equilibria; learn properties of gases and how to predict them with the ideal gas law; perform simple separations of mixtures. Prerequisite: MAT 1033A or appropriate placement test.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
CHM 1045C
College Chemistry I,
4 credit hours,
(Fall, Spring, Summer)
Quantitative approach to modern theoretical and descriptive chemistry with appropriate development of laboratory technique. Includes symbols, formulas, equations, atomic structure, bonding, states of matter, stoichiometry, thermo-chemistry, solutions, colloids, molecular orbitals, periodicity and properties. A two semester sequence in general chemistry with laboratory exercises and demonstrations. University transfer credit. Prerequisite: MAC 1102 or MAC 1105 required. High School Chemistry or Physics, CHM 1025 or PHY 1020 advised.

CHM 1045L
College Chemistry I Lab,
1 credit hour,
(Offered as needed)
A laboratory course designed for CHM 1045, with emphasis on the development of laboratory skills in chemistry. Experiments performed by the student in CHM 1045L will complement and supplement the concepts presented in CHM 1045. University transfer credit. Prerequisite: CHM 1045

CHM 1046C
College Chemistry II,
4 credit hours,
(Fall, Spring, Summer)
Continuation of CHM 1045. Includes kinetics, chemical equilibria, acids and bases, thermodynamics, non-metals and their compounds, electrochemistry, redox, the atmosphere, hydrocarbons, biochemistry, nuclear chemistry, coordination compounds, and qualitative analysis. Prerequisite: CHM 1045

CHM 1046L
College Chemistry II Lab,
1 credit hour,
(Offered as needed)
A laboratory course and laboratory portion of CHM 1046C. Designed for students needing laboratory credit only in College Chemistry II. Exercises and experiments to supplement the lecture portion of CHM 1046C. University Transfer Credit. Prerequisite: CHM 1045C

CHM 2210C
Organic Chemistry I,
4 credit hours,
(Fall)
This course will present the correlation between structure and physical and chemical properties of organic compounds. The principle types of mechanisms involved in organic reactions will be discussed on aliphatic and aromatic hydrocarbons, alcohols, aldehydes, aldehydes and ethers. Laboratory exercises illustrate these topics. Prerequisite: CHM 1046C

CHM 2211C
Organic Chemistry II,
4 credit hours,
(Spring)
In continuation of Organic Chemistry I (CHM 2210) the relationships between functional groups and properties of organic compounds will be discussed. Infrared, NMR, and mass spectroscopy will be used for identification of organic compounds and for structure analysis. The transition state theory is applied to interpret the nucleophilic addition reactions the carbanion condensation reactions, the interconversions of carbonyl compounds and the nucleophilic acyl substitution of carboxylic acids and their derivatives. Biochemical topics, i.e., lipids, carbohydrates, amino acids and proteins are included. Prerequisite: CHM 2210C

CIS 1000 △
Introduction to Computer Science,
3 credit hours,
(Fall, Spring, Summer)
A broad survey of computing and computer science topics appropriate for computer science, computer engineering, and information systems students. Includes an introduction to structured programming. Math placement at the college algebra level strongly advised.

CIS 1940 *△
Internship in Computer Studies,
3 credit hours,
(Fall, Spring, Summer)
On-the-job training in the Associate of Science and Associate of Applied Science degree programs in which the student is enrolled. The student is under the direction of a full-time faculty member and under the supervision at work of a qualified supervisor. The faculty member in concert with the student and the student’s supervisor will design a plan of study. The faculty member will periodically meet with the student and the supervisor to evaluate and if necessary modify the plan as deemed appropriate. The supervisor will rate the student’s performance, knowledge, comprehension, dependability, initiative, cooperativeness, and total performance. A project paper or approved project will be submitted by the student three weeks prior to the close of the term. May be taken four times for a total of 12 credit hours. Prerequisite: Permission of the instructor.

CJC 1020*
Law Enforcement Vehicle Operation,
2 credit hours,
(Offered as needed)
The components of the police driving environment are explored, and practical exercises on the driving range are conducted. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

CJC 1350*
Discipline and Special Confinement Techniques,
3 credit hours,
(Offered as needed)
The student is introduced to the essentials of discipline and special confinement techniques necessary for the corrections profession. The topics to be introduced include physical operation, physical force, recognizing abnormal behavior, verbal and nonverbal communications.

CJC 2000*
Introduction to Corrections,
3 credit hours,
(Fall)
Theories of punishment and incarceration; the organization of correction programs and institutions, principles of probation and parole, role of parole and probation officers, legal implications; problems of rehabilitation. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△ Technology-Across-the-Curriculum Course.
CJC 2162*  
Introduction to Probation and Parole,  
3 credit hours,  
(Offered as needed)  
This course reviews the theories and practices of probation and parole within a community setting. The study of probation and parole as it is used as a behavior modification process is considered. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

CJD 1250*  
Interviews and Interrogations,  
3 credit hours,  
(Offered as needed)  
An advanced course designed to cover the techniques, methods, principles, and issues of interviewing and interrogations. Course meets Florida Police Standards Salary Incentive Requirements.

CJD 1468*  
Youthful Offenders,  
3 credit hours,  
(Offered as needed)  
A course designed to provide the student with an overview and awareness of Florida youthful offender programs to include; facilities and specialized programs, staff-inmate relations, one-way/two-way communications and effective communications and effective communications skills, positive characteristics for staff working with youthful offenders; the helping relationship inventory, local treatment programs, opportunities and alternatives, treatment problem solving and other techniques relating to youthful offenders.

CJD 1501*  
Criminal Justice Instructor Techniques,  
5 credit hours,  
(Offered as needed)  
A basic course in instrumental principles designed to equip the law enforcement specialist with techniques of classroom and field training methods.

CJD 1543*  
Police Radar Operator,  
3 credit hours,  
(Offered as needed)  
This course is sanctioned by the Florida Police Standards and Training Commission and meets requirements of Chapter 943.14(10)(a), Florida Statutes. It is designed to equip law enforcement officers with the basic knowledge and skills needed for proper operation of radar speed measurement devices.

CJD 1602*  
Drug Awareness,  
3 credit hours,  
(Offered as needed)  
This course is a part of the Criminal Justice Standards and Training Commission approved Advanced Training Program. It is designed to familiarize students with common drug abuse terms, classes of drugs, pharmacological information relating to commonly used and abused chemicals and their effects, an overview on use patterns and characteristics of drug abusers, how to troubleshoot and deal with problems that develop among abusers and effective presentation skills.

CJD 1604*  
Injury and Death Investigation,  
3 credit hours,  
(Offered as needed)  
This course is designed to qualify in-service law enforcement and correctional officers and support personnel in the area of injury and death investigations, to include medical-legal aspects, evidence from wounds, physical evidence and laboratory analysis, crime scene investigations and other technical aspects of injury and death.

CJD 1605*  
Criminal Investigative Techniques,  
3 credit hours,  
(Offered as needed)  
This course in Criminal Investigative Techniques for Law Enforcement Officers is an Advanced Course primarily designed for Florida law enforcement officers and has been approved by the Florida Criminal Justice Standards and Training Commission. With permission of the instructor, it may be offered to other students enrolled in the CJD Program. It is designed to provide the student with instruction in Florida investigative concepts and techniques, use of evidence and related matters.

CJD 1617A*  
Basic Laser Certification,  
3 credit hours,  
(Offered as needed)  
This course is designed to qualify students and especially in-service law enforcement officers in the use, principles, and overviews of using a Laser Speed Measurement Device. It will include instruction on the relationships of speed offenses and motor vehicle crashes, the principles of laser based speed measurements, as well as courtroom testimony, case law, and a classroom practicum. Prerequisite: Certified Law Enforcement Officer.

CJD 1618*  
Radar to Laser Operations,  
1 credit hour,  
(Offered as needed)  
This is a course for radar certified law enforcement officers in the use, principles, and overviews of a Laser Speed Measurement Device. It will include instruction on the relationship of speed offenses and motor vehicle crashes, the principles of laser based speed measurements, as well as courtroom testimony, case law, and classroom practice. Prerequisite: CJD 1615, Police Radar Operator or equivalent.

CJD 1621*  
Officer Survival Techniques,  
2 credit hours,  
(Offered as needed)  
This course is part of the Criminal Justice Standards and Training Commission specialized Training Program. It is designed to prepare law enforcement officers for police operations involving street survival techniques and procedures to include (but not limited to) firearms training, hostage situations, raids, individual survival techniques, and special survival exercises.

CJD 1625*  
Special Tactical Problems for Law Enforcement,  
3 credit hours,  
(Offered as needed)  
This course is a part of the Criminal Justice Standards and Training Commission Advanced Training Program. It is designed to prepare law enforcement officers for police operations which involve special tactical situations and will include; importance of physical well-being in the Criminal Justice setting, an overview of Florida local disaster procedures, civil disorder patterns, special task force unit operations, special crime areas and practical exercises.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
CJD 1657*  
Investigation and Supervision of Officer-Involved Shooting,  
3 credit hours,  
(Offered as needed)  
Provides information for the response, coordination, investigation, and supervision of an officer-involved shooting where an individual died, was wounded, or remained unharmed. Given an officer-involved shooting, the student will analyze the information provided, describe investigative leads, and prepare information for Agency Chief, State Attorney, media, and the judicial system regarding the investigation and supervision of an officer-involved shooting.

CJD 1667*  
Conducting Background Investigations,  
3 credit hours,  
(Offered as needed)  
An overview of conducting applicant backgrounds for the officer and investigator with limited experience in this area. The course will provide an understanding of the problematic, legal, investigative, and evidentiary aspects of background investigations.

CJD 1700*  
Criminal Justice Legal I,  
3 credit hours,  
(Offered as needed)  
Criminal Justice Legal I provides an introductory overview of the Criminal Justice System and a history of law. The foundation and basic components of law are studied with specific focus upon officer application. Court procedure and testimony are examined. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

CJD 1701*  
Criminal Justice Legal II,  
3 credit hours,  
(Offered as needed)  
Constitutional Law and its application to the public and officers are examined. Law including evidence procedures, arrest laws, search and seizure, and various statutory laws that are common to Police and Correctional officers are studied. Emphasis is given to elements of various crimes. Various civil law applications are covered. Civil and criminal liability of officers is studied. Objectives are addressed as specified by the Criminal Justice Standards and Training commission.

CJD 1702*  
Criminal Justice Communications,  
3 credit hours,  
(Offered as needed)  
The report-writing process from the interview, statement taking, and note taking, through the final report product is covered with practical exercises included. The differences between interviewing and interrogation are explored. Interpersonal skills in communication are covered along with radio and telephone procedures. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

CJD 1703*  
Criminal Justice Interpersonal Skills I,  
3 credit hours,  
(Offered as needed)  
Community relations techniques and courtesy are addressed with emphasis given to crime prevention. The needs of various groups within society are addressed including: juveniles, the elderly, ethnic and cultural groups, the mentally ill and retarded, the physically handicapped, and substance abusers. Intervention techniques for various situations including: suicide, domestic violence, and other crises are studied, with practical exercises. Stress recognition and reduction are included. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

CJD 1704*  
Criminal Justice Defensive Tactics,  
4 credit hours,  
(Offered as needed)  
Instruction includes the techniques used for an officer’s personal safety and those necessary to subdue, search, and then transport resisting individuals. The use of restraining devices, impact weapons, and pressure points are covered. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

CJD 1705A*  
Criminal Justice Weapons,  
3 credit hours,  
(Offered as needed)  
Criminal Justice Weapons includes instruction in the use of officer firearms including handguns and shotguns. Safety procedures and ammunition use are covered in lecture. Instruction includes the use of chemical agents, with practical exercises included. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

CJD 1721*  
Law Enforcement Patrol,  
3 credit hours,  
(Offered as needed)  
Law Enforcement Patrol addresses the skills and techniques that are needed by officers daily to do patrol tactics and respond to various types of calls. Methods of approach to various high risk situations are explored, with practical exercises included. Unusual occurrence events, including fire-fighting and crowd control are addressed. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

CJD 1722*  
Law Enforcement Traffic,  
3 credit hours,  
(Offered as needed)  
Law Enforcement Traffic studies traffic enforcement and control, with the inclusion of DUI offenses and enforcement. Traffic accident investigation, scene management, and reporting procedures are studied. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

CJD 1724*  
Law Enforcement Investigations,  
4 credit hours,  
(Offered as needed)  
Law Enforcement Investigations addresses investigation of various crimes, including property crimes, persons crimes, narcotics offenses, vice, organized crime, terrorist activity, bombing incidents, and death investigations. Techniques are developed from the initial observation methods through the processing of the crime scene and case preparation. Florida’s computer network is studied as an information source. Objectives are addressed as specified by the Criminal Justice Standards and Training Commission.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
CJD 1740*
Criminal Justice Interpersonal Skills II, 3 credit hours,  
(Offered as needed)  
The interpersonal skills needed by  
oficers to understand the incarcerated  
society are explored, with emphasis  
upon supervision methods. Inmate  
adjustment and the various segments  
of the society are studied. The course  
includes the study of homosexuality,  
female inmates, deception and  
manipulation by inmates, and  
institutional criminalities. Objectives  
are addressed as specified by the  
Criminal Justice Standards and  
Training Commission.

CJD 1741*
Correctional Emergency Preparedness, 2 credit hours,  
(Offered as needed)  
Skills needed for riot and disturbance  
control and fire-fighting are studied and  
practiced. Lecture includes methods  
of riot prevention, handling of unusual  
ocurrences, what to do if taken  
hostage, and emergency procedures.  
Objectives are addressed as specified  
by the Criminal Justice Standards and  
Training Commission.

CJD 1742*
Correctional Operations, 4 credit hours,  
(Offered as needed)  
The operation of correctional facilities  
is studied – including the intake of  
new inmates, all aspects of their daily  
care, institutional procedures, and  
techniques utilized by officers to do  
daily tasks. Objectives are addressed  
as specified by the Criminal Justice  
Standards and Training Commission.

CJD 1740*
Human Diversity Workshop, 2 credit hours,  
(Offered as needed)  
This course is designed to enhance the  
participants awareness of their own  
cultural rules and predispositions and  
how these cultural influences come  
into play in common interactions  
with others. This awareness is  
used to develop the participants’  
understanding of issues related  
to human diversity: gender, race,  
ethnicity, etc. The program also  
presents basic skills and knowledge  
related to interacting with diverse  
individuals and groups.

CJD 1956*
Post Pursuit Tactics, 3 credit hours,  
(Offered as needed)  
Course is designed to instruct public  
safety professionals how to combat  
post pursuit stress syndrome and to  
effectively channel stress in a positive  
manner at the termination of a high  
speed pursuit. Prerequisite: Must be a  
certified law enforcement officer.

CJD 1957*
Post Pursuit Trainer Techniques, 1 credit hour,  
(Offered as needed)  
Course is designed to instruct public  
safety professionals how to teach  
methods to combat post-pursuit stress  
syndrome and to effectively channel  
stress in a positive manner at the  
termination of a high speed pursuit.  
Prerequisite: Must be a certified law  
enforcement officer.

CJD 2254*
First Responder for Law Enforcement, 3 credit hours,  
(Offered as needed)  
This course is designed primarily to  
qualify in-service law enforcement and  
correctional officers in the area of  
first responder to medical emergencies to  
include: introduction to first responder  
training, overview of the human body,  
diagnostic signs of patient examination,  
airway care and pulmonary  
resuscitation, cardiopulmonary  
resuscitation, shock, bleeding, primary  
patient care and injuries. Objectives  
are addressed as specified by the  
Criminal Justice Standards and  
Training Commission.

CJD 2301*
Ethics in Criminal Justice, 3 credit hours,  
(Offered as needed)  
An overview of ethical considerations  
applied to the criminal justice profession.

CJD 2310*
Criminal Justice Supervision, 5 credit hours,  
(Offered as needed)  
A career development course for full  
time police officers designed to train  
the line supervisor.

CJD 2320A*
Criminal Justice Middle Management, 3 credit hours,  
(Offered as needed)  
This course is part of the Criminal  
Justice Standards and Training  
Commission Advanced Training  
Program. Courses in the Advanced  
Training Program are designed to  
enhance an officer’s knowledge,  
skills, and abilities for the job he or  
she performs. It is not an entry-level  
supervisory course. Advanced Course  
006, Line Supervision, or a comparable  
course, or sufficient experience and  
background in this subject area are  
prerequisites for this course.

CJD 2470*
Emergency Preparedness  
for Correctional Officers, 3 credit hours,  
(Offered as needed)  
This course is designed to qualify  
in-service correctional officers and  
correctional support personnel in the  
area of emergency preparedness, to  
include; emergency plans, specifics on  
disturbances and disorder planning,  
hostage plans and situations, factors  
affecting emergency planning and  
management and leadership.

CJD 2603*
Sex Crimes, 3 credit hours,  
(Offered as needed)  
This course is designed to provide  
the student with the knowledge and  
expertise to effectively deal with  
various sex offenders. It deals with  
the magnitude of the problem,  
investigation and physical evidence. It  
also addresses victim considerations  
and legal aspects through court  
presentation. Prerequisite:  
Certified Law Enforcement  
or Corrections Officer.

CJD 2605*
Traffic Homicide Investigation, 5 credit hours,  
(Offered as needed)  
Course content covers traffic  
homicide investigation skills to include  
reconstruction, meets Florida Justice  
Standards and training certification  
requirements for career development.

CJD 2626*  
Hostage Negotiations for Criminal Justice, 3 credit hours,  
(Offered as needed)  
This course is designed to qualify  
in-service law enforcement  
and correctional officers and  
support personnel in the area of  
hostage negotiations, to include;  
introduction to the problem, types  
of hostage negotiations principles,  
communications principles, intelligence  
gathering, abnormal behavior and  
participant performance exercises.

* This college credit course is not intended  
for transfer and may not be applied  
toward the A.A. degree.
CJD 2630*  
Firearms Instructor,  
2 credit hours,  
(Offered as needed)  
This course is designed to provide the student with knowledge and expertise to instruct untrained students in the proper use of firearms, range safety, and weapon maintenance. The student shall also be instructed in legal aspects and range management.

CJD 2632*  
Field Training Officer Techniques,  
3 credit hours,  
(Offered as needed)  
Designed to introduce the criminal justice student (law enforcement and corrections) to all aspects of field training and evaluation programs to include adult learning and instruction, evaluation, role responsibilities and characteristics of the Field Training Officer (F.T.O.) communications techniques, counseling techniques, legal and ethical issues and human motivation. This is course number 51 in the series approved by the Florida Criminal Justice Standards and Training Commission Advanced Courses.

CJD 2670*  
Confidential Informants,  
3 credit hours,  
(Offered as needed)  
This course is designed for in-service law enforcement, correctional officers and support personnel to qualify them in the area of development of confidential informants and other sources of information, to include; definition and management of an informant program, legal aspects of dealing with informants, and the development of other sources of investigative information.

CJD 2681*  
Court Case Preparation and Court Presentation,  
3 credit hours,  
(Offered as needed)  
Fundamentals of criminal case preparation and court presentation for the law enforcement and/or correctional officer to include case files, pre-trial discovery, depositions, plea bargaining, court testimony, moot court, post adjudication responsibilities, case studies and a practical exercise. This is course number 20 in the series approved by the Florida Criminal Justice Standards and Training Commission Advanced Courses.

CJD 2691*  
Stress Awareness and Resolution,  
3 credit hours,  
(Offered as needed)  
A course designed to provide the student with an overview and awareness of stress and its resolution, to include: identification of various types of stress, the results of stress, psychological methods of controlling stress, case study analysis, and spouse awareness and involvement. This is course number 50 in the series approved by the Florida Criminal Justice Standards and Training Commission Advanced Courses.

CJE 1300*  
Police Organization and Administration,  
3 credit hours,  
(Offered as needed)  
Principles of organization and administration in law enforcement; fundamentals of police planning; budget analysis, recruitment, training, and assignments; disciplinary problems and methods of control; cooperation with other agencies; public relations; records and inspection. This course may be used in transfer to UWF and may be accepted at other upper division schools. Students should consult the department for program planning.

CJE 1440*  
Crime Prevention,  
3 credit hours,  
(Offered as needed)  
A course in crime prevention as it exists today in America. Study includes residential, personal and commercial crime prevention and it includes crime prevention resources, crime analysis and current legal implications. Designed primarily for in-service law enforcement officers but will not be limited to such personnel.

CJE 1550*  
Chemical Tests for Intoxication,  
3 credit hours,  
(Offered as needed)  
Background and history of effects of alcohol on motor coordination; operation and maintenance of breathalyzer equipment; court testimony; legal aspects of laws governing DUI. Required course for state certification.

CJE 2251*  
Writing and Reviewing Reports,  
3 credit hours,  
(Offered as needed)  
Designed to give students a broad understanding of writing and reviewing criminal justice reports. Specifically designed for correctional and law enforcement officers.

CJE 2660*  
Computer Applications in Criminal Justice,  
3 credit hours,  
(Offered as needed)  
Computer Applications in Criminal Justice introduces the participant to the use of the computer in Criminal Justice applications. The participant will be introduced to prepackaged software and the process used to modify the package to criminal justice usage. This will include an electronic filing system designed to store, review and update data which can be manipulated into printed reports for daily and periodic usage.

CJL 1100  
Criminal Law,  
3 credit hours,  
(Offered as needed)  
Fundamentals of Criminal Law to include historical background and development, jurisdiction, the criminal act and responsibility. Classification and analysis of Florida Statutes.

CJL 1400  
Criminal Procedure,  
3 credit hours,  
(Fall, Spring, Summer)  

CJL 2205*  
Florida Criminal Law,  
3 credit hours,  
(Offered as needed)  
This course is designed to provide the student with an overview of criminal law, laws of arrest, rules of evidence, etc., concerning Florida Law.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

Δ Technology-Across-the-Curriculum Course.
CJL 2500
Courts and the Judicial Process,
3 credit hours,
(Offered as needed)
This course is designed to teach the student the major structures and basic legal concepts of the American criminal court system. The students shall learn the components, personnel, and inherent social issues in our present criminal court system.

CJT 1120*
Crime Scene Procedures,
3 credit hours,
(Offered as needed)
Course emphasizes preliminary investigation techniques, crime scene protection, recording, processing, collection and preservation of evidence, fingerprint technology and legal aspects of evidence.

CJT 2100*
Criminal Investigation,
3 credit hours,
(Offered as needed)
Fundamentals of investigation; duties and responsibilities of the detective’s interrogation techniques; search and techniques of protecting the crime scene; collection and preservation of evidence; modus operandi systems; scientific aids and other sources of information; court preparation and case follow-up.

CJT 2140*
Introduction to Criminalistics,
3 credit hours,
(Offered as needed)
The scientific aspects of investigation and crime scene technology, crime laboratory functions, ballistics, dactyloscopy and latent print development, scientific methods of criminal identification.

CJT 2220*
Law Enforcement Photography,
3 credit hours,
(Offered as needed)
A basic course in police photography techniques to include photographic principles, illumination, composition, identification, fingerprint, crime scene, traffic accident, courtroom technician darkroom and film processing, enlarging, printing and field application. By permission of instructor. Prerequisite: CJT 2100 or CJT 1120.

CJT 2340*
Police Operations,
3 credit hours,
(Fall, Spring)
Responsibilities, powers and duties of the uniformed patrolman; patrol techniques and procedures; field interrogation and note-taking; mechanics of arrest and search; handling of the mentally ill; transportation of prisoners; crime scene procedures; elements of property protection; fundamentals of community relations; mob and riot control; dealing with domestic violence, gangs and drug crime; civil liability of officers and departments.

CLP 1001
Personal Adjustment,
3 credit hours,
(Fall, Spring, Summer)
Psychology of adjustment, application of psychological theory for problem solving and better mental health. An examination of psychological defense mechanisms and adaptive behavior.

CLP 2140
Abnormal Psychology,
3 credit hours,
(Offered as needed)
A study of the different problems in psychopathology, including anxiety, depression, social deviance, psychosis, schizophrenia, both child and adult, mental retardation and general brain dysfunction, with emphasis on descriptive etiology, known causes, and treatments. Prerequisite: PSY 2012

COM 1002
Effective Communications,
3 credit hours,
(Offered as needed)
This course is designed to develop student’s communication skills through the use of effective listening, speaking and writing skills. There is emphasis on increasing student’s ability to speak clearly and effectively by learning to plan, compose and deliver ideas within the global, ethical, technological and customer service aspects of communication.

COP 1006
Introduction to Programming Concepts and Logic,
3 credit hours,
(Fall, Spring, Summer)
General survey of programming/problem solving techniques. Algorithm development will employ the use of a modern programming language. Prerequisite: COP 1006 or equivalent.

COP 2011
Advanced Applications Programming in Visual Basic,
3 credit hours,
(Fall, Spring, Summer)
This course introduces the advanced features of Visual Basic. The student will learn to create advanced versions of innovative and useful Windows programs. Topics to be discussed include: basic and advanced graphical user interface development; sequential file processing; advanced object-oriented programming; ActiveX components; advanced database management development including interfacing to external applications and Visual Basic’s internal database manager; multimedia, networking; and advanced data structures. Prerequisite: COP 2010

COP 2220
Programming in C,
3 credit hours,
(Fall, Spring, Summer)
An introduction to C programming language using microcomputers. Prerequisite: COP 1006 or equivalent.

COP 2222
Advanced Programming in C,
3 credit hours,
(Offered as needed)
An advanced exploration of the C programming language using microcomputers. Prerequisite: COP 2220 or equivalent.

COP 2224
Programming in C++,
3 credit hours,
(Fall, Spring, Summer)
An introduction to C++ programming language using microcomputers. Prerequisite: COP 2220 or equivalent.

COP 2228
Advanced Programming in C++,
3 credit hours,
(Offered as needed)
An advanced exploration of the C++ programming language using microcomputers. Prerequisite: COP 2224 or equivalent.

COP 2360
Programming in C Sharp (C#),
3 credit hours,
(Offered as needed)
An introduction to the C# programming language using microcomputers. Prerequisite: COP 1006 or equivalent.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△Technology-Across-the-Curriculum Course.
COP 2800 △
Introduction to JAVA Programming,
3 credit hours,
(Fall, Spring, Summer)
An introduction to programming using the Java language. Students will develop and apply individual programs. Prerequisite: COP 1006 or equivalent.

COP 2805 △
Advanced JAVA Programming,
3 credit hours,
(Fall, Spring, Summer)
An advanced level programming course using advanced Java techniques. Prerequisite: COP 2800 or equivalent.

CRW 2001
Creative Writing I,
3 credit hours,
(Offered as needed)
Instruction and practice in writing various forms of poetry, short story, drama, and/or other modes and in submitting for publication.

CRW 2002
Creative Writing II,
3 credit hours,
(Offered as needed)
Advanced work in poetry and prose modes. Student creativity in prose, poetry, and drama. Students submit creative work to publisher market. Prerequisite: CRW 2001 or equivalent or demonstrated publication at equivalent or higher level.

CRW 2100
Introduction to Fiction Writing,
3 credit hours,
(Offered as needed)
This course offers extensive practice writing fiction. Students will develop a body of original creative work under the supervision of the instructor and will submit works for publication. Upon agreement with the instructor, students may elect to develop either individual short stories or novel chapters with synopsis. Prerequisites: None, but CRW 2001 and CRW 2002 recommended.

CRW 2300
Introduction to Poetry Writing,
3 credit hours,
(Offered as needed)
This course offers extensive practice writing poetry. Students will develop a body of original creative work under the supervision of the instructor and will submit works for publication. Prerequisites: None, but CRW 2001 and CRW 2002 recommended.

CRW 2302
Intermediate Poetry Writing,
3 credit hours,
(Offered as needed)
This course builds on poetry writing skills developed in CRW 2300. Students will examine styles and techniques of contemporary poets and develop a portfolio of original work with attention to the revision process. Students will submit work for publication. Prerequisites: CRW 2300

CRW 2600
Writing Scripts for Film and Television,
3 credit hours,
(Offered as needed)
This course offers an introduction to the theory and practice of writing scripts for television and film. Students will develop a body of original work with a goal toward publication.

CTS 1171 *
Desktop Support,
3 credit hours,
(Fall, Summer, Spring)
This course introduces the helpdesk skills to troubleshoot hardware or software operation and application problems for end users on the desktop or client-side, based on the Windows operating system. It is designed to help prepare the student to take the two core exams (70-271 and 70-272) required for certification as a Microsoft Certified Desktop Support Technician (MCDST). Students should have user-level competency with Windows and MS Office. Prerequisites: None, although CTS 2101, CDA 2523 and CGS 1100, CGS 1570 would be useful.

CTS 1550 *
Microsoft PowerPoint,
1 credit hour,
(Offered as needed)
An introduction to the use of Microsoft Office 2007 PowerPoint for the creation of graphic presentations.

CTS 2101 *
Introduction to Windows,
3 credit hours,
(Fall, Spring, Summer)
An introduction to operating systems in general with emphasis on Windows.

CTS 2300 *
Designing Active Directory and Network Infrastructure,
3 credit hours,
(Offered as needed)
This course focuses on the design process of an active directory in infrastructure and a network infrastructure that supports active directory, including name resolution strategy, network connectivity design, Group Policy structure, and forest and domain infrastructure. Prerequisites: CDA 2500, CDA 2523, CDA 2525, CET 2497, and CTS 2302 or equivalent. This course prepares the student for the MCP Exam, a core requirement for Windows MCSE.

CTS 2302 *
Windows Active Directory,
3 credit hours,
(Offered as needed)
This course focuses on a windows server directory service environment, including forest and domain structure, DNS, site topology and replication, organizational unit structure and delegation of administration, Group Policy, and user/group/computer account strategies. Prerequisites: CDA 2500, CDA 2523, CDA 2525, and CET 2497 or equivalent. This course prepares the student for the MCP Exam, a core requirement for Windows MCSE.

CTS 2310 *
Designing Security for Windows Network,
3 credit hours,
(Offered as needed)
Build the design skills necessary to plan the security infrastructure for a Windows network. Learn to analyze business requirements, identify security risks, plan an authentication strategy, control access to resources, develop a data encryption scheme, and provide secure connections. This course prepares the student for MCP Exam, a core requirement for Windows MCSE. Prerequisites: CDA 2500, CDA 2523, CDA 2525, CET 2497, CTS 2302

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△Technology-Across-the-Curriculum Course.
CT 2320 *△
Planning and Maintaining Windows Network Infrastructure,
3 credit hours,
(Offered as needed)
This course addresses the planning and maintenance of server network infrastructure. Tasks include planning the physical and logical network, planning and troubleshooting a routing strategy, planning and optimizing DHCP, DNS, and WINS strategies, and planning IPSEC network access. Prerequisites: CDA 2500, CDA 2523, CDA 2525, and CET 2497 or equivalent. This course prepares the student for the MCP exam, a core requirement for Windows MCSE.

CTS 2811 *△
Administering SQL Server Database,
3 credit hours,
(Offered as needed)
This course provides students with the skills required to install, configure, administer and troubleshoot the client-server database management system of Microsoft SQL Server. This is preparation for the MCP exam, an elective requirement for Windows MCSA/MCSE. Prerequisites: CDA 2500, CDA 2523, CDA 2525

DAA 1100
Modern Dance,
2 credit hours,
(Offered as needed)
This beginning dance class serves as an introduction to the art of contemporary dance. It includes instruction and practice in basic modern dance techniques, improvisation, dance forms and brief historical overview. This course may be taken up to four times for credit.

DAA 1101
Intermediate Modern Dance,
2 credit hours,
(Offered as needed)
This course includes a continued analysis of the modern dance at an intermediate level. Instruction and practice in specific contemporary dance techniques and performance qualities will be stressed. This course may be taken up to four times for credit.

DAA 1200
Beginning Ballet,
2 credit hours,
(Offered as needed)
This beginning dance course is designed to serve as an introduction to the tradition and discipline of the art of classical ballet. Physical development of the body as an expressive instrument for ballet movement will be stressed as strength, flexibility, balance, alignment, agility, turnout, control, elevation and sensitivity to line are studied. This course may be taken up to four times for credit.

DAA 1201
Intermediate Ballet,
2 credit hours,
(Offered as needed)
Intermediate Ballet is designed to train the student in the tradition of the art of the classical ballet beyond the basics. Continued development of the body as an expressive instrument for ballet movement will be stressed as students reach the proficiency level necessary to perform the more complicated steps of an intermediate class. This course may be taken up to four times for credit.

DAA 1500A
Beginning Jazz,
1 credit hour,
(Offered as needed)
This course includes instruction in tap dance technique and the introduction and performance experience, usually Creative Dramatics. Students must participate in designated rehearsals and performances. Prerequisite: Level of competency determined by audition. This course may be taken up to four times for credit.

DAA 1501
Intermediate Jazz Dance,
1 credit hour,
(Offered as needed)
Those students ready to move at the intermediate level in jazz will find this course beneficial for the improvement of jazz dance performance techniques. This course may be taken up to four times for credit.

DAA 1520
Beginning Tap,
1 credit hour,
(Offered as needed)
This course includes instruction in tap dance technique and the introduction of time steps commonly used in musical theater auditions. It may be taken up to four times for credit.

DAA 1521
Tap II,
1 credit hour,
(Offered as needed)
The Tap II dance class includes more in-depth history of tap dance, instruction and practice utilizing tap and exploring its various styles. Prerequisite: DAA 1520. This course may be taken up to four times for credit.

DAA 1580
Musical Theatre Dance I
1 credit hour,
(Offered as needed)
This beginning course covers the study of musical theatre dance techniques and styles as related to a specific performance experience. This course may be taken up to four times for credit.

DAA 1680
Dance Workshop,
1 credit hour,
(Offered as needed)
This course includes instruction and participation in dance as required by specific productions, i.e., Theatre/Show Choir. This course may be taken up to four times for credit.

DAA 1681
Dance Ensemble,
1 credit hour,
(Offered as needed)
The student shall participate in the preparation and performance of original dance compositions to include Dance Line and Show Choir performances. Prerequisite: Level of competency determined by audition. This course may be taken up to four times for credit.

DAA 1905
Directed Individual Study – Dance,
1 credit hour,
(Offered as needed)
This course is a defined independent study in dance pursued under the supervision of a faculty dance instructor and recorded through departmental procedures. It is designed to permit a student to pursue non-scheduled dance activity work which may be of a specialized nature and not available through classes or courses available in a college schedule. Prerequisite: Departmental approval is required. This course may be taken up to two times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△Technology-Across-the-Curriculum Course.
DAA 2202  
Advanced Ballet,  
2 credit hour,  
(Offered as needed)  
Students enrolling in Advanced Ballet must have reached a high level of physical strength, mastery of skills, and technical knowledge in order to be eligible for placement in this section. Nuances of ballet performance and classical repertoire will be stressed. Prerequisite: DAA 1201 and/or appropriate level of competency approved by the instructor. This course may be taken up to four times for credit.

DAA 2220  
Pointe,  
1 credit hour,  
(Offered as needed)  
The student must already have mastered intermediate/advanced ballet terminology and movement vocabulary in order to be prepared for the physical demands of dancing on pointe. Prerequisite: DAA 1201 and/or appropriate level of competency approved by the instructor. This course may be taken up to four times for credit.

DAA 2581  
Musical Theatre Dance II,  
1 credit hour,  
(Offered as needed)  
The continued study of Musical Theatre dance techniques and styles as related to a specific performance experience, usually Summer Ensemble Workshop. Students must participate in rehearsals and performances. Prerequisite: Level of competency determined by audition. This course may be taken up to four times for credit.

DAA 2610  
Dance Composition,  
2 credit hours,  
(Offered as needed)  
An introduction and practice in the application of compositional tools encourages the student to explore and compose dance. By studying the body’s movement in time and space the student will improve technical skills, develop improvisation and choreographic skills and enhance overall dance performance. Previous dance experience is helpful. This course may be taken up to four times for credit.

DAA 2682  
Dance Workshop II,  
1 credit hour,  
(Offered as needed)  
This course includes continued instruction and participation in dance as required by specific productions, i.e., Theatre/Show Choir. Prerequisite: A demonstration of competency determined by audition. This course may be taken up to four times for credit.

DAA 2683  
Performance Dance,  
1 credit hour,  
(Repertory and/or Original Choreography)  
This course includes the continuation of study and participation in all rehearsals of selected works of dance repertory and/or original choreography culminating in public performance. Prerequisite: Demonstration of competency determined by audition. This course may be taken up to four times for credit.

DAA 2930  
Dance – Special Topics,  
3 credit hours,  
(Fall, Spring, Summer)  
This is a defined special topics course pursued under the supervision of a faculty member and recorded through usual departmental procedures. It is designed to permit a student to pursue non-scheduled academic and laboratory work that may be of a specialized nature and not available through the college schedule.

DAN 1750  
Dance Conditioning,  
1 credit hour,  
(Offered as needed)  
Dance Conditioning is an excellent course in which to begin your dance training. It is designed to improve fundamentals for the beginning/intermediate student through daily practice in floor work, yoga, and Pilates exercises. This movement class will get you ready to meet the challenges of other dance classes by toning, strengthening and preparing the body to move. This course may be taken up to four times for credit.

DEP 2004  
Human Growth and Development,  
3 credit hours,  
(Fall, Spring, Summer)  
A research oriented course in human development, covering the life span of the human being from conception to death. Special emphasis placed upon the interrelationships of the stages of development of the normal person.

DEP 2100  
Child Growth and Development I,  
3 credit hours,  
(Fall, Spring, Summer)  
Growth and development of the child from conception through age five, including the physical, social, emotional and mental development of the young child, influence of environment, and principles and theories of development.

DSC 1004*  
Introduction to NRP and NIMS,  
3 credit hours,  
(Offered as needed)  
Designed to inform emergency responders and planners of the key elements in the National Response Plan (NRP) and the National Incident Management System (NIMS) and their relationship to planning and response operations. The curriculum includes classroom exercises.

DSC 1013*  
Domestic and International Terrorism,  
3 credit hours,  
(Offered as needed)  
This course is designed to assist students in recognizing and understanding the elements and objectives of terrorism and 4th Generation Warfare and how they affect public safety planning and response operations.

DSC 1030*  
Disaster Communications,  
1 credit hour,  
(Offered as needed)  
This courses is designed to address preparation for natural and man-made disasters in which normal communications are often disrupted by physical damage, system overload, weather conditions, or natural features. The focus will be on methods of exchanging critical information prior to, during and after an emergency.

DSC 1222*  
Psychological Management of Disaster Victims,  
3 credit hours,  
(Offered as needed)  
This course introduces students to a general overview of terrorism and the potential psychological effect of terrorist events on victims.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
DSC 1552*
Critical Infrastructure Protection, 3 credit hours, (Offered as needed)
This course introduces participants to the Critical Infrastructure Protection (CIP) process to secure the effective protection of the people, physical entities, and cyber systems that are critical. The CIP course will guide leaders in the systematic protection of critical infrastructures. More basically, the course will introduce decision sequence that assists leaders and future leaders in ultimately determining exactly what really needs protection as well as when. The course will introduce a time-efficient and resource-restrained practice that ensures the protection of only those infrastructures upon which survivability, continuity of operations, and mission success depend.

DSC 1562*
Homeland Security Threat Strategy, 3 credit hours, (Offered as needed)
This course addresses problems of terrorism from a criminal justice perspective. It is designed to provide students with an understanding of the major issues associated with responding to terrorism in a democratic society. The course focuses on the threat of terrorism to the United States and will review specific strategies to deter terrorist threats to the U.S. The course will assess the relative effectiveness of anti-terrorist activities.

DSC 1631*
Planning Considerations for Terror Prevention, 3 credit hours, (Offered as needed)
This course introduces participants to various aspects of planning for potential terrorist activity. The student will be introduced to basic principles of emergency management, communications, security threats, and the effects these operations may have on personnel. The student will learn techniques for evaluating their own jurisdiction’s vulnerability against terrorist attacks. Students will gain knowledge of the roles and responsibilities of local agencies during terrorism responses. The course introduces participants to various aspects of emergency management of terrorist activity.

DSC 1751*
Homeland Security Policy and Law, 3 credit hours, (Offered as needed)
This course introduces participants to the major debates about balancing democratic freedoms with security - from the Patriot Act to Supreme Court decisions on detention powers. The course provides insight into legal strategies necessary to confront ongoing national security threats. The course examines laws designed to preserve both our security and our democratic way of life.

DSC 2055*
Issues in Disaster Response, 1 credit hour, (Offered as needed)
This course serves as an introduction to disaster response and mitigation for the first responder. Students will be introduced to legislation that has had a major impact on disaster and incident response, the role of local, Tribal, State and Federal government response to incident and disaster declarations and a brief introduction to the National Incident Management System, National Response Plan and the Incident Management System.

DSC 2214*
Disaster Response Operations, 3 credit hours, (Offered as needed)
This course examines the response protocol, logistics, responsibilities, interagency support, and concepts of front end planning involved in preparation for a catastrophic event. Students will be introduced to the development of an emergency response plan that will include concepts such as lookout; awareness; communications; escape; safety (lares); training; and various agency relationships.

ECO 2013 Economics I, 3 credit hours, (Fall, or as needed)
Macroeconomics. Basic concepts and principles, national income accounting; fiscal and monetary policy and application, growth economics. Basic math skills required.

ECO 2023 Economics II, 3 credit hours, (Spring, or as needed) Microeconomics. Economic structures, price theory, factor markets, and general equilibrium. Current national and international problems. World trade and balance of payments.

Comparative economics. Prerequisite: ECO 2013 or equivalent.

EDF 1005 Introduction to Education, 3 credit hours, (Fall, Spring)
A study of the history, philosophy and social context of education. The course will help the student think critically about the process of education and his/her role as an educator. Student will observe and participate in the educational settings of local schools. (Plus 30 hours field experience.)

EDG 2701 Teaching Diverse Populations, 3 credit hours, (Fall, Spring)
This course will provide the student with the opportunity to explore personal values and attitudes toward cultural diversity. Designed for the prospective educator, the theoretical component will examine the issues of teaching in culturally diverse classrooms. Field experience and examination of educational materials will enhance the student’s understanding of multiculturalism. (Plus 30 hours field experience) Prerequisite: EDF 1005

EDP 2002 Educational Psychology, 3 credit hours, (Fall, Spring, Summer)
Significant aspects of the growth and development of children and youth, including physical, social, and intellectual developments as they affect behavior patterns. Psychology as applied in improving the learning process.

EET 1003C* Electronics for Drafters, 3 credit hours, (Offered as needed)
An introductory course in electronics for drafter designers and beginning electronics technicians; designed to provide a basic understanding of electronic principles, theories and concepts.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

◊ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
**EME 2040** △
Introduction to Educational Technology, 3 credit hours, (Fall, Spring Summer)
This course will develop competencies necessary to integrate technology into classroom instruction. Students will survey a variety of instructional technology materials, software, and systems, as well as learn to use these in the classroom environment.

**EMS 1335**
Emergency Vehicle Operators Course, 1 credit hour, (Offered as needed)
Students receive basic education and information on the safe and effective operation of emergency vehicles. Prerequisite: Permission of the EMS Program Director.

**EMS 1337**
Defensive Tactics, 1 credit hour, (Offered as needed)
Designed to provide EMS personnel with fundamental knowledge of the recognition of aggressive/violent behavior, and use of appropriate verbal and physical skills to control aggressive behavior in the course of providing emergency care. Prerequisite: Admission to the Paramedic program or permission of instructor.

**EMS 1401L**
EMT Lab, 4 credit hours, (Offered as needed)
An integrated experience that is designed to allow the student to apply practical experience to material learned in Emergency Medical Technician. Students will learn how to assess, treat and transport the sick and injured at the level of the Emergency Medical Technician-Basic in the laboratory environment, area hospitals and advanced life support EMS ambulances. There is emphasis on assessment based learning and complies with National DOT EMT Basic curriculum. Prerequisite: Permission of the EMS Director and AHA CPR for the Healthcare provider; Corequisite: EMS 1401L

**EMS 2233**
Paramedic Processes III, 2 credit hours, (Spring)
The final course necessary for Paramedic program completion. Designed to prepare the student for both Florida State Board and National Registry examinations. Emphasizes the integration of paramedic knowledge, attitudes and behaviors. Course consistent with the most current DOT curriculum. Corequisite: EMS 2436L

**EMS 2342**
Advanced Extrication, 1 credit hour, (Offered as needed)
Focus is on advanced principles of gaining access to and disentanglement of victims of vehicular crashes. Emphasis is placed on victim and rescuer safety. Actual use of available rescue tools is included. Packaging of patients to protect against possible spinal injury is demonstrated and assessed. The course takes place with a mock scene and "junk" cars are used for experience with rescue tools.

*This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△Technology-Across-the-Curriculum Course.

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
EMS 2425L*
Paramedic Externship,
4 credit hours,  
(Spring)
The final clinical internship consisting of ten (10), 24-hour shifts at Okaloosa County EMS, Walton County EMS, South Walton Fire Rescue or another alternate service. The paramedic student functions in the charge medic role during the experience. Each student is assigned to a designated Senior Paramedic Preceptor for the entire clinical schedule. Corequisite: EMS 2233

EMS 2435L*
Paramedic Lab I,  
5 credit hours,  
(Fall)
The clinical and skills laboratory companion course to EMS 2231C. Designed to provide instruction in advanced paramedic skills and the opportunity to apply these skills in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor. Prerequisite: Admission to the Paramedic program; Corequisite: EMS 2231C

EMS 2436L*
Paramedic Lab II,  
5 credit hours,  
(Spring)
This course is the clinical companion course to EMS 2232C, Paramedic Processes II. It is designed to provide instruction in the advanced paramedic skills and the opportunity to apply them in the clinical setting. By state rule, the instructor-to-student ratio will not exceed six students to one instructor. Prerequisite: EMS 2435L; Corequisite: EMS 2232C

EMS 2438C*
Advanced Clinical Internship,  
2 credit hours,  
(Offered as needed)
This course serves to reinforce and enhance knowledge learned throughout the paramedic course. Students will learn advanced assessment techniques for patients dealing with neurological, cardiovascular, airway, pulmonary, GI, urinary, renal, endocrine, hematological, immune system and trauma complaints. Specialized clinical lab time will be included with this course. Prerequisites: EMS 2232C, EMS 2436L

EMS 2526*
Twelve-Lead EKG Interpretation,  
1 credit hour,  
(Offered as needed)
Designed for the EMS student. Fundamentals of twelve-lead electrocardiogram (EKG) interpretation. Emphasis on scenario-based and case-based learning that reinforces the concept that 12-lead EKG technology is the best tool for visualization of the surfaces of the heart, identification of sites of ischemia, injury and infarction, as well as various intricate conduction abnormalities. Prerequisite: EMT certificate or permission of the instructor.

EMS 2552*
Advanced Cardiac Life Support (ACLS),  
1 credit hour,  
(Offered as needed)
An intense overview of the guidelines for emergency cardiac care and cardiac arrest management as published by the American Heart Association. Students must successfully pass a written examination and a skills proficiency performance examination to receive the “ACLS Provider” and successfully pass the course. Prerequisites: EMT certificate and CPR for Health Care Providers certification.

EMS 2553*
Pediatric Advanced Life Support (PALS),  
1 credit hour,  
(Offered as needed)
Designed for the EMS student. Fundamentals of recognizing infants and children who are at risk for cardio pulmonary arrest, including the strategies that are needed to prevent cardiopulmonary arrest in infants and children and the cognitive and psychomotor skills needed to resuscitate and stabilize infants and children in respiratory failure, shock or cardiopulmonary arrest. Prerequisite: EMT certificate or permission of the instructor.

EMS 2555*
Basic Trauma Life Support (BTLS),  
1 credit hour,  
(Offered as needed)
Fundamentals of managing traumatic injuries at the basic and advanced levels in accordance with the national Basic Trauma Life Support committee. The recognition and treatment of specific traumatic injuries such as pneumothorax, closed head injury, hemothorax, compensated and decompensated shock, fractures, uncontrolled bleeding, internal injuries of the abdomen and thorax. Emphasis is on rapid assessment, management and transport with discussion on mechanism of injury and kinematics of trauma. Prerequisite: EMT certification or permission from the instructor.

ENC 1101 △
English Composition I,  
3 credit hours,  
(Fall, Spring, Summer)
Instruction and intensive practice in expository and argumentative writing including a documented paper. The student will practice all CLAST essay and language skills as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on a standardized placement test measuring communications/verbal achievement or successful completion of ENC 0080. This course may be taken four times for credit.

ENC 1102
English Composition II,  
3 credit hours,  
(Fall, Spring, Summer)
Interpretative and critical reading of fiction (novel, novella, short story), drama, and poetry. The student will practice in the writing of analytic discourse, research papers, and all CLAST essay and language skills as part of the essay process. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: Completion of ENC 1101 or an equivalent course with a grade of “C” or better.

ENC 1112
CLAST Review: English Language Skills,  
1 credit hour,  
(Offered as needed)
A short course designed to prepare students to take or retake the CLAST English Language Skills sub-test. The course is conducted as a self-study utilizing the tutorial services in the Academic Success Center.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△ Technology-Across-the-Curriculum Course.
ENC 1113
CLAST Review: Essay Skills, 1 credit hour, *(Offered as needed)*
A short course specifically designed to prepare students to write fifty-minute timed essays that conform to CLAST standards. The course is conducted as a self-study under the supervision of the CLAST Coordinator.

ENC 2210
Technical Report Writing, 3 credit hours, *(Offered as needed)*
This course covers the fundamentals of technical report writing, mechanics, and style. Various types of reports are prepared, and criteria for evaluating the adequacy of the various components of these reports are utilized. The course also includes reading and analysis of technical literature as well as oral reporting. Prerequisite: passing score on placement test.

ENG 1001
Research Papers, 1 credit hour, *(Fall, Spring, Summer)*
A learn-by-doing course in the methods of conducting library research and writing a documented paper. Students will work in the library on self-selected subjects under the supervision and guidance of the instructor in a tutorial relationship. For successful completion, each student will write a documented paper in accordance with a standard system. This course may be taken four times for credit.

NOTE: This course may be used as a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. Students may use this course to satisfy deficiency in the Gordon Rule writing requirement, but it may not be used in lieu of traditional Gordon Rule courses, such as ENC 1101.

ENL 2022
English Literature II, 3 credit hours, *(Offered as needed)*
A study of English literature from the Romantics through the Twentieth century focusing on major works and their authors with an emphasis upon the literature as a significant reflection of and contribution to the political, cultural, social, religious, and economic milieu of each age. This course may be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: ENC 1101

ESC 1000
Earth Science, 4 credit hours, *(Fall, Spring, Summer)*
Survey of processes, materials and structure of the solid earth, oceanography, meteorology, and the relation of the earth to other planets. Intended for physical science general education requirement. Practical exercises in mineral and rock identification.

ESC 1000L
Earth Science Lab, 1 credit hour, *(Fall, Spring, Summer)*
Laboratory experiences pertaining to the physical environment: observation, measurement, data analysis, mapping, map interpretation, properties of earth materials. This is an optional course serving students who transfer to universities which require a laboratory course to satisfy the General Education requirement in Physical Science.

ETD 1102
Introduction to Technical Drawing, 3 credit hours, *(Offered as needed)*
A course in the fundamental principles of the graphic language (the language of industry) and is developed for students without previous mechanical drawing experience. Topics include: use and care of instruments, lettering, geometric construction, multiview projection, sketching techniques, inking, and methods of reproduction.

ETD 1111*
Drafting I, 6 credit hours, *(Offered as needed)*
The first of a sequence of courses in drafting which includes basic use of instruments, freehand lettering, geometric construction, orthographic projection, sections and conventions, conventional revolutions, dimensioning, inking, mechanical lettering, and methods of reproduction. Prerequisite: ETD 1102 and ETD 1217 or equivalent.

ETD 1217*
Fundamentals of Dimensioning and Tolerancing, 4 credit hours, *(Offered as needed)*
A course designed to help students develop the basic fundamentals of dimensioning and tolerancing. Topics include: dimensioning systems such as; metric, decimal, fractional-inch, foot and inch, tolerancing methods, limits and tolerances, tolerancing accumulation, dimensioning practices, and standards fits. Prerequisite: for Drafting and Design student course should be taken with ETD 1102.

ETD 1221*
Drafting II, 6 credit hours, *(Offered as needed)*
A course that continues and completes the student’s study of the fundamentals intrinsic to all types of drafting. Topics covered include isometric, dimetric, trimetric, oblique, and perspective projection, auxiliary views, related mathematics, precision dimensioning and inking practices. Prerequisite: ETD 1111 or equivalent.

ETD 1320C *
AutoCAD I, 3 credit hours, *(Offered as needed)*
A basic course on the use of AutoCAD Software to include; Introduction to AutoCAD, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files. Prerequisite: ETD 1102 or equivalent.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△ Technology-Across-the-Curriculum Course.
ETD 1340C* △
AutoCAD II,
3 credit hours,
(Offered as needed)
The second course in a series designed to develop skill and proficiency in the use of AutoCAD software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block attributes and X-Ref, paper space, UCS, data exchange and output files. Prerequisite: ETD 1320C* or equivalent.

ETD 1312C *△
AutoCAD LT I,
3 credit hours,
(Offered as needed)
A basic course on the use of AutoCAD LT Software to include; Introduction to AutoCAD LT, drawing commands, display and inquiry commands, modify commands, dimensioning and annotation, data exchange and output files. Prerequisite: ETD 1102 or equivalent.

ETD 1313C *△
AutoCAD LT II,
3 credit hours,
(Offered as needed)
The second course in a series designed to develop skill and proficiency in the use of AutoCAD LT software to include: additional drawing commands, editing commands, modify commands, advanced display and inquiry commands, advanced dimensioning and annotation, advanced layering, block attributes and X-Ref, paper space, UCS, data exchange and output files. Prerequisite: ETD 1320C or equivalent.

ETD 1355C *△
AutoCAD 3-D Modeling I,
3 credit hours,
(Offered as needed)
A basic course in mechanical design using basic computer geometry techniques. Topics will include: orthographic projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques. Prerequisite: ETD 1340C or equivalent.

ETD 1322 *△
Introduction to Pro/ENGINEER,
3 credit hours,
(Offered as needed)
A basic course on the use of Pro/ENGINEER software to include:

ETD 1614* Electromechanical Drafting,
3 credit hours,
(Offered as needed)
A course in the fundamentals of electronics drafting covering such topics as: using electronic symbols, schematic diagrams, connection diagrams, block and logic diagrams, WW board drawings, chassis drawings, and pictorial drawings. Prerequisite: ETD 1111 or equivalent.

ETD 1810C* Technical Illustration,
3 credit hours,
(Offered as needed)
The purpose of this course is to help students develop the skills, knowledge, and attitudes necessary to be job entry-level qualified as technical illustrators. Prerequisites: ETD 1221 or EGS 1130C, and ETD 1340C.

ETD 1811C △ Corel Draw I,
3 credit hours,
(Offered as needed)
Class will focus on organization of two-dimensional space in regard to the plane. Study and hands-on projects both in artistic media and on computer will include the following: Comprehensive usage of this vector-based drawing program to create professional artwork – from single logos to intricate technical illustrations. Topics such as perspective and the creation of depth on the two dimensional surface will be included as well. Students will investigate the use of computer graphics disciplines emphasizing illustration and the principles of color and design. Students will also be expected to complete five individual projects related to the coursework. The presentation of these projects to the class will include both written and visual materials. Students will generate a portfolio of computer art and are encouraged to broaden perspectives and to think creatively. Class will serve as introduction to use of Corel Draw.

ETD 1842C* Computer Rendering I,
3 credit hours,
(Offered as needed)
A basic course in rendering techniques using Accurender software. Topics include: The walkabout window, AutoCAD views, move in the Ray Trace View, viewing the model, Rendering the model, assigning materials, lighting your model and printing. Prerequisite: ETD 1335C

ETD 2150* Industrial Print Reading,
3 credit hours,
(Offered as needed)
The beginning level aspects of reading industrial prints such as drawing notes, title blocks, revision blocks, legends, schedules, multiviews, and parts list.

ETD 2218* Geometric Dimensioning and Tolerancing,
4 credit hours,
(Offered as needed)
An introductory course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing. Prerequisites: ETD 1217 or equivalent.

ETD 2219* Advanced Geometric Dimensioning and Tolerancing,
4 credit hours,
(Offered as needed)
An advanced course in geometric dimensioning and tolerancing using the geometric method nationally accepted according to ASMEY 14.5M. Topics covered include: definitions and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing, quality assurance methods and techniques, and manufacturing methods and techniques. Prerequisite: ETD 2218 or equivalent.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△Technology-Across-the-Curriculum Course.
ETD 2250*
Tolerance Stacks I, 4 credit hours,
(Offered as needed)
A course for engineers, designers, inspectors and other engineering personnel. This course consists of learning how to perform tolerance accumulation studies within a part or assembly to include: Coordinate dimension stacks and stacks involving geometric tolerancing. Prerequisite: ETD 2218 or equivalent.

ETD 2251*
Tolerance Stacks II, 4 credit hours,
(Offered as needed)
A second course for engineers, designers, inspectors and other engineering personnel. The course continues the learning and adds more advanced concepts relative to performing tolerance accumulation studies within a part or assembly to include: coordinate dimension stacks and stacks involving geometric tolerancing. Prerequisite: ETD 2219 and ETD 2250 or equivalent.

ETD 2328C *
Introduction to MicroStation, 3 credit hours,
(Offered as needed)
A basic course in mechanical design using basic computer geometry techniques. Topics will include orthogonal projections, space relationships of points, lines, planes and revolution of objects. Additional coverage will include principles of surface generation, intersections, wire modeling, and solid modeling techniques. Prerequisites: ETD 2328C or equivalent.

ETD 2357C *
Inventor I, 3 credit hours,
(Offered as needed)
A basic course in Parametric Solid Design using AutoDesk Inventor Software. Topics include: Basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production. Prerequisite: ETD 1102

ETD 2358C *
Inventor II, 3 credit hours,
(Offered as needed)
The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using AutoDesk Inventor Software. Topics include: Sheet Metal Modeling, Assembly Concepts, Assembly Modeling Approach and Tools, Advanced Constraints, Motion Simulation, Adaptive Technology and Drawing Presentation. Prerequisite: ETD 2357C

ETD 2364C*
SolidWorks I, 3 credit hours,
(Offered as needed)
A basic course in Parametric Solid Design using SolidWorks Software. Topics include: Basic concepts of parametric part sketching 3D part creation, Revolve, Sweep and Lofted features, shell and coil, surface creation, sheet metal and orthographic drawing production. Prerequisite: ETD 1355C or equivalent.

ETD 2365C*
Mechanical Desktop I, 3 credit hours,
(Offered as needed)
A basic course in Parametric Solid Design, using AutoCAD Mechanical Desktop Software. Topics include: Basic concepts of Parametric Sketching, Part Creation, Surface Creation and Editing, Basic Concepts of Combining Parts. Prerequisite: ETD 1311C or equivalent.

ETD 2366C*
SolidWorks II, 3 credit hours,
(Offered as needed)
The second course in a series designed to develop skill and proficiency in Parametric Solid Design, using SolidWorks Software. Topics include: Sheet Metal Modeling, Assembly Concepts, Assembly Modeling Approach and Tools, Advanced Constraints, Motion Simulation, Adaptive Technology and Drawing Presentation. Prerequisite: ETD 2364C or higher or equivalent.

ETD 2367C*
3D Studio Max I, 3 credit hours,
(Offered as needed)
Course is designed to use 3D Studio in rendering, and animation as a dynamic visualization tool for AutoCAD design images. Upon completion of this course, the user will be able to navigate through the modules of the program, model simple projects, set up scenes for rendering and animation, assign materials to objects, and define simple motion paths, input and output techniques. Prerequisite: ETD 1355C or equivalent.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△Technology-Across-the-Curriculum Course.
ETD 2395C*
Architectural Desktop for Architecture,
3 credit hours,
(Offered as needed)
A basic course in 3D Architectural Modeling using AutoDesk Architectural Desktop Software. Topics include: Introduction to Architectural Desktop, creating floor plans, modifying walls, advanced wall features, placing doors and windows, door and window assemblies, creating roofs and roof slabs, creating slabs for floors and ceilings, creating elevations, sections and details, and annotation and documentation. Prerequisite: ETD 1320C or equivalent.

ETD 2542*
Structural Drafting,
3 credit hours,
(Offered as needed)
A course in the fundamentals of structural drafting including: an overview of structural drafting, prestressed concrete drafting, structural steel drafting, and poured-on-site concrete drafting. Prerequisite: TAR 2121C or equivalent.

ETD 2543C*
Structural Drafting II,
3 credit hours,
(Offered as needed)
An advanced course in structural drafting covering prestressed concrete drafting, structural steel drafting, and poured-on-site concrete drafting for large commercial and industrial buildings as well as bridges, parking decks, towers, and stadiums. Prerequisite: ETD 2542 or equivalent.

ETD 2713*
Drafting III,
6 credit hours,
(Offered as needed)
A course in the fundamentals of Mechanical and Machine Drafting. Topics covered include: Geometric dimensioning and true positional tolerancing; threads, nuts, bolts, screws, gears, cams and springs, drafting standards, and preparation of working drawings. Prerequisite: ETD 1340C, and ETD 2218 or equivalent.

ETD 2802C*
Technical Illustration II,
3 credit hours,
(Offered as needed)
The purpose of this course is to help students develop advanced skills, knowledge, and attitudes necessary as technical illustrators, to include oblique, and axiometric projections, perspective and exploded pictorial drawings, and related techniques. Prerequisites: ETD 1801C and ETD 1311C or equivalent.

ETD 2843C *
3D Computer Rendering II,
3 credit hours,
(Offered as needed)
An advanced course in rendering techniques using Accurender software. Topics include: Radiocity, landscape for realism, decals, backgrounds, environments, panoramas and animation. Prerequisite: ETD 1842C

ETD 2905*
Independent Study – Drafting,
1 credit hour,
(Fall, Spring, Summer)
Practical treatment of special geometry, graphics, and design with emphasis on individual work projects utilizing such graphical techniques as orthographic projection, perspective drawing, auxiliary views, topographic drawing, and graphing. Prerequisites: EGS 1110C and ETD 1111 or permission of instructor. This course may be taken up to four times for credit.

ETD 2930*
Special Topics – A survey of Geometric Dimensioning and Tolerancing,
1 credit hour,
(Offered as needed)
This is a review course in Geometric Dimensioning and Tolerancing using the Geo-Metric Method nationally accepted according to ASME Y14.5M. This course is intended for students who have prior training in Geometric Dimensioning and Tolerancing, but require a review covering new and updated information on the subject. Topics covered include: definition and terms, symbols, datum referencing, locational tolerancing, form tolerancing, profile tolerancing, orientation and runout tolerancing, and math for positional tolerancing.

ETG 1941*
Internship,
3 credit hours,
(Offered as needed)
On-the-job training in the Applied Associate of Science Degree program in which the student is actively enrolled. The student works under a qualified supervision on a job related to his/her degree program. The supervisor will rate the student’s performance, knowledge, comprehension, dependability, initiative, cooperativeness, and total performance. A project paper or approved project will be submitted by the student two weeks prior to the end of the semester.

ETI 1411*
Advanced Manufacturing Processes,
3 credit hours,
(Offered as needed)
This course presents the numeric and computer numeric control of various machining processes and the use of computer programming in the machine shop. Included are shop safety, program preparation, milling, drilling, subroutines, coordinate systems and other related topics.

ETI 1414C*
Introduction to CNC Machines and CNC Machining Practices,
3 credit hours,
(Offered as needed)
This course is designed to provide the student with an introduction to CNC machines and CNC machining to include: Theory, Operation, Setup, Safety and Practices.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△ Technology-Across-the-Curriculum Course.
ETI 1420* Properties of Materials and Cutting Tools, 3 credit hours, (Offered as needed)
This course is designed to provide the student with an introduction to the basic properties of materials, principles and processes in the metal working and plastics field and tools and machinery involved in manufacture of metals and plastics. This course covers non-chip producing and chip producing manufacturing processes.

ETI 1710* Occupational Safety, 3 credit hours, (Offered as needed)
A basic course in occupational safety and health covering such topics as: theories of accident causation; workplace hazards; hazard analysis and prevention; accident reporting; OSHA, ergonomics; product safety; workers’ compensation; and stress on the job.

ETI 1713* Implementing Total Safety, 3 credit hours, (Offered as needed)
A course on implementing the total Safety Management (TSM) approach to workplace safety and health. Major topics include the TSM Steering Committee, TSM Facilitator, and improvement project teams (IPTs).

ETI 1715* ISO 14000 - Environmental Management, 3 credit hours, 45 lec. (Offered as needed)
ISO 14000 is the international standard for Environmental Management Systems that promote environmental protection and prevention of pollution in balance with socioeconomic needs. This course prepares individuals to guide an organization through the steps necessary for ISO 14000 registration and subsequent audits and triennial re-registration, or to be effective participants (employees of any rank) in an organization already registered to ISO 14000.

ETI 2110* Total Quality Tools, 3 credit hours, 45 lec. (Offered as needed)
This course prepares students to effectively solve business/process/product problems, track process performance, find process and product improvement opportunities, and validate improvements made, using the necessary intellectual tools and procedures including: Five-S, Flow Charting, Pareto Analysis, Cause & Effect Diagrams, Histograms, Check Sheets, Scatter Diagrams, Stratification, Statistical Process Control, and Failure Mode and Effects Analysis.

ETI 2111* Quality Tools II, 3 credit hours, (Offered as needed)
This course is a continuation of Quality Tools I with an emphasis on inspection methods and layout techniques. Included also are quality costs, planning, probability, statistical control and other related topics.

ETI 2114* Benchmarking, 3 credit hours, (Offered as needed)
A course covering the fundamentals of benchmarking. Major topics include: rationale for benchmarking, management’s role in benchmarking, obstacles to benchmarking, selection of processes to benchmarking, and acting on benchmarking data.

ETI 2117* Introduction to Total Quality Management, 3 credit hours, 45 lec. (Offered as needed)
Total Quality Management (TQM) is the proven management system used by successful world-class private and public organizations of all kinds worldwide. Developed and propagated during the latter part of the Twentieth Century and further evolving in the early 21st Century, TQM continues to make organizations more effective and competitive in the global economy. This course provides students with a comprehensive understanding of the contemporary management philosophy, concepts, tools, and techniques of Total Quality and related quality management initiatives including ISO 9000, Six Sigma, and Lean. Individuals employed by organizations contemplating, or already using, TQM, ISO 9000, Six Sigma, or Lean should consider this course as a way to become a more effective employee regardless of rank.

ETI 2131* Statistical Process Control, 3 credit hours, (Offered as needed)
A course covering the fundamentals of SPC. Major topics include: rationale for SPC, inhibitors of SPC, management’s role in SPC, the quality tools, and control charts.

ETI 2190 Implementing Total Quality, 3 credit hours, 45 lec. (Offered as needed)
This course prepares individuals to guide a successful implementation of Total Quality Management in any kind of organization, or to be an effective participant (employee of any rank) in a Total Quality implementation. The course features a 20 step process for implementation, each fully detailed, developed, and sequenced, to apply to any organization. Emphasis is placed on the critical role of executive level leaders, and variation among organizations. Prerequisite: ETI 2117

ETI 2419C* Advanced Concepts of CNC Machines and CNC Machining Practices, 3 credit hours, (Offered as needed)
This course is designed to provide the student with advanced concepts in CNC machines and CNC machining to include: Theory, Operation, Setup, Safety, and Practices.

ETI 2940* Directed Work Study Industrial-Technical, 1 credit hour, (Offered as needed)
Directed experience in instructional, laboratory and/or materials assistance in a designated industrial-technical area. This course may be taken up to four times for credit. Department chair approval required.

EUH 2032 ▷ The Holocaust, 3 credit hours, (Offered Spring)
A survey of European anti-Semitism, the rise of institutionalized and codified racism in Nazi Germany and the resulting Holocaust. Examines the role of the state and the citizenry in genocide. Also examines the nascent anti-Semitism of the modern world and the rise of Israel as an international power.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
❖ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
EVS 1001C
Environmental Sciences, 4 credit hours,
(Offered as needed)
A study of the physical and biological environment and man’s ecology with emphasis upon contemporary biological problems.

FES 1002*
Introduction to State and County Government, 1 credit hour,
(Offered as needed)
This course is designed to provide an introduction to state and county government. It will describe the powers and functions of the different levels of government and provide a history of government in Florida.

FFP 1202*
Basic Search and Rescue, 3 credit hours, 
(Offered as needed)
This course provides the student search and rescue operations fundamentals. It is not a National Association for Search and Rescue (NASAR) Certification course.

FFP 1301*
Fire Service Hydraulics, 3 credit hours, 
(Offered as needed)
Introduction to the study and characteristics of hydrostatics and hydrodynamics in the fire service; to include basic hydraulic measuring units, facts, theories, and formulas for problem solving. The course covers the relationship between flow and pressure and mathematical hydraulic formulas.

FFP 1302*
Fire Apparatus Operations, 3 credit hours, 
(Offered as needed)
The curriculum covers the laws, rules and driving techniques for emergency vehicles, as well as an introduction to fire service hydraulics. Fire ground evolutions and pumping operations make up the practical part of the course. The evolution portion of the course includes the calculation of friction loss in hose and appliances, calculation of gallons per minute needed in fire streams, use of pre-connected lines, tandem pumping, drafting, relays and master streams.

FFP 1505*
Fire Prevention Practices, 3 credit hours, 
(Offered as needed)
This course is a survey of the principles of fire prevention and investigation. It includes a study of fire hazards in various occupancies; a review of fire prevention codes; a study of procedures and techniques of fire prevention inspection, to include surveying and mapping, recognition and elimination of fire hazards, public relations, methods of determining the area of fire origin, fire cause, fire spread and location and preservation of evidence.

FFP 1510*
Fire Service Codes and Standards, 3 credit hours, 
(Offered as needed)
This course is a study of building and life safety codes in relation to types of occupancies, building design, fire resistance of building materials, fire problems inherent in structures and life safety considerations. A problem solving emphasis is used to provide opportunities for application of building and life safety code enforcement methods to prevent and correct building design problems.

FFP 1540*
Private Fire Protection Systems I, 3 credit hours, 
(Offered as needed)
This is a study of private fire protection and detection systems, such as sprinkler and standpipe systems, chemical extinguishing systems, detection systems and devices. Each system is discussed as to its need, construction, preventive maintenance and individual uses.

FFP 1740*
Fire Service Course Delivery, 3 credit hours, 
(Offered as needed)
The curriculum draws from many recognized authorities in exploring the methods and mechanics of imparting information and adult learning principles. The course emphasizes techniques which have wide application in teaching situations, as well as devices for specific areas. Also stressed are measuring teaching effectiveness, the use of media and visual aids.

FFP 1800*
Disaster Education for Individuals and the Community, 2 credit hours, 
(Offered as needed)
This course provides a study of the design, development, and delivery of public disaster safety education and programs including: methods of identification of disaster safety programs; the selection of target programs and strategies of affect reduction; methods of designing and implementing information and educational programs; methods of evaluating a program’s impact. Studies include theoretical and practical skills training in individual, group, and mass media communications, instructional skills, planning priorities, and evaluation techniques.

FFP 1801*
Introduction to Emergency Management, 2 credit hours, 
(Offered as needed)
This course will discuss emergency management practices and how they relate to natural and man-made disasters. It is designed to help the student develop an understanding of emergency management principles, practices, and standards in the local, national, and international environments.

FFP 1810*
Fire Fighting Tactics and Strategy I, 3 credit hours, 
(Offered as needed)
This course is a study of the basic concepts involved in fire fighting, including the behavior, fire fighting fundamentals and principles of extinguishment; the proper role for a utilization of various fire companies and pre-planning fire problems.

FFP 1826*
Incident Management, 2 credit hours, 
(Offered as needed)
This course contrasts the major forms of Incident Management/Incident Command Systems. It illuminates these differences and offers a fresh perspective on the concepts on which these systems are founded in order to make them more accessible and user-friendly. It bridges the gap between their theoretical and academic foundations and their real-world applications, and makes them more applicable to the professional’s daily needs.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
FFP 1880*
Political and Policy Basis for Emergency Management,
2 credit hours,
(Offered as needed)
This course provides the student specialized knowledge and skills necessary to develop public policy related to emergency management, providing public policy leadership in the area of emergency management as part of the larger responsibility to protect the general welfare of the people. Topics of discussion include: government disaster programs; agency participation; policy design and implementation; and administrative processes involved in managing disasters.

FFP 1881*
Emergency Management Leadership,
3 credit hours,
(Offered as needed)
This course provides the student the knowledge and skills necessary for effective interpersonal relationships, including conflict management and the use of power and influence as they apply to emergency administration and leadership. It addresses the budget process and related administrative duties of an emergency management program manager.

FFP 1890*
Emergency Management Principles for Tourism and Hospitality Industry,
2 credit hours,
(Offered as needed)
This course analyzes emergency management functions and responsibilities within the tourism and hospitality industry. Particular emphasis is placed in the areas of administration, organization, communications, and human relations. Students will learn how historical mistakes can influence human response to disaster situations, and some of the current legal and human challenges posed when dealing with disasters.

FFP 2111*
Fire Chemistry,
3 credit hours,
(Offered as needed)
This course is a study of basic definitions of the chemical characteristics applicable to the chemistry of fire; it also discusses combustion, the principles of fire, heat measurement, heat transfer, and heat energy sources (sources of ignition). Emphasis is on emergency situations and the most favorable methods of handling fire fighting and control.

FFP 2120*
Fire Service Construction,
3 credit hours,
(Offered as needed)
Topics include identifying hazards from assault by fire and gravity, how building construction can influence fire spread, fire confinement or structural collapse, and many other life safety issues. This is not a building course, but rather a course to identify construction features and their hazards under fire conditions.

FFP 2521*
Construction Documents and Plans Review,
3 credit hours,
(Offered as needed)
This course covers the principles of effective curriculum design. It stresses the principles of adult learning and student-centered learning. Designing courses and units that address learning, performance, and behavioral objectives is the program goal. The curriculum is intended to facilitate the development of nationally applicable performance standards for uniformed fire service personnel. It is the goal of the Florida State Fire College and the Bureau of Fire Standards and Training to provide a comprehensive program that, when completed, the prospective instructor will have the knowledge and skills to present and or develop a training curriculum.

FFP 2120*
Fire Cause and Origin,
3 credit hours,
(Offered as needed)
Study of cause and origin of fires with emphasis on fire inspector’s or fire officer’s role in the investigation process. The course deals with determination of fire cause and origin, collection of evidence, and investigator’s preparation for trial.

FFP 2706*
Fire Service Public Information Officer,
3 credit hours,
(Offered as needed)
This course prepares the student to serve effectively as an organizational spokesperson, according to the current practices in the profession of public relations in relationship to the Fire Service. Particular emphasis will be placed on case studies in crisis communications and the role of the Public Information Officer (PIO) in the Incident Command System (ICS).

FFP 2720*
Company Officer,
3 credit hours,
(Offered as needed)
Designed to assist fire officers in solving the varied problems and situations they will be required to manage effectively in today’s ever changing fire service. The curriculum includes a review of fire department organization and administration, management theory, leadership, communication, motivation, and small group dynamics.

FFP 2741*
Fire Service Course Design,
2 credit hours,
(Offered as needed)
This course covers the principles of effective curriculum design. It stresses the principles of adult learning and student-centered learning. Designing courses and units that address learning, performance, and behavioral objectives is the program goal. The curriculum is intended to facilitate the development of nationally applicable performance standards for uniformed fire service personnel. It is the goal of the Florida State Fire College and the Bureau of Fire Standards and Training to provide a comprehensive program that, when completed, the prospective instructor will have the knowledge and skills to present and or develop a training curriculum.

FFP 2770*
Ethical and Legal issues in Fire Service,
3 credit hours,
(Offered as needed)
This course teaches the federal, state, and local laws that regulate emergency services, national standards influencing emergency services, standard of care, tort, liability, and a review of relevant court cases. It also includes labor relations, human rights and diversity, conflicts of interest and frameworks for ethical decision-making.

FFP 2780*
Fire Department Administration,
3 credit hours,
(Offered as needed)
The course is designed to present the principles of management theory, and its application in the fire service. The course is intended for officers whose area of responsibility encompasses long and short range planning, budgeting and administration.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
LOWER DIVISION COURSE DESCRIPTIONS

FFP 2811*  
Fire fighting Tactics and Strategy II,  
3 credit hours,  
(Offered as needed)  
This course is a study of the principles utilized on the fire ground for maximum manpower and equipment utilization; fire ground administration starting with a small fire on up through major conflagrations. Emphasis will be on developing thinking skills in relation to crises. Prerequisite: FFP 1810

FFP 2820*  
Emergency Preparedness,  
3 credit hours,  
(Offered as needed)  
This course teaches all aspects of emergency preparedness and planning related to natural and man-made disasters, and basic principles of emergency management. Planning concepts and the planning process will be discussed.

FFP 2834*  
Contingency Planning for the Public Sector,  
2 credit hours,  
(Offered as needed)  
Designed to assist students in developing effective public sector response and force protection plans by using the National Incident Management System and the Incident Command System templates.

FRE 1000 ♦  
Practical French,  
3 credit hours,  
(Spring)  
This course provides training for verbal mastery of French in practical situations as well as instruction in contemporary francophone culture and in the historical and cultural significance of the French-speaking world. Students will research a French country/region.

FRE 1120 ♦  
French I,  
4 credit hours,  
(Fall)  
Pronunciation and grammatical structures of French, with emphasis upon balanced development of all four skills – listening, speaking, reading, and writing. Covers all basic structures of the language.

FRE 1121 ♦  
French II,  
4 credit hours,  
(Spring)  
Pronunciation and grammatical structures of French, with emphasis upon balanced development of all four skills – listening, speaking, reading, and writing. Covers all basic structures of the language. Prerequisite: FRE 1120 or its equivalent.

FRE 2220 ♦  
French III,  
4 credit hours,  
(Fall)  
Intermediate level review of grammar, readings in French Literature, and development of conversational and writing skills. Prerequisite: FRE 1121 or its equivalent.

FRE 2221 ♦  
French IV,  
4 credit hours,  
(Spring)  
Completion of intermediate level review of grammar, readings in French literature, and development of conversational and writing skills. Prerequisite: FRE 2220 or its equivalent.

GEA 1000 ♦  
World Regional Geography,  
3 credit hours,  
(Offered as needed)  
The course introduces the student to geographic regional studies. It will combine the concepts of physical geography and cultural, economic, and human geography as it applies to the differing regions of the world. It will show the relationships between the regional environment and the people who live there, between settlement patterns, economic patterns and cultural patterns within each region; and, using current events, it will show the impact of other phenomena upon those regions and their people. Relationships between the various regions will be highlighted, again using current events as the triggering element.

GEB 1011  
Introduction to Business,  
3 credit hours,  
(Fall, Spring, Summer)  
Designed to give students a broad understanding of the nature of business and a preliminary idea of the various areas of business specialization.

GEB 1136*  
Foundations of E-Business,  
3 credit hours,  
(Offered as needed)  
This course is designed to provide students with a managerial view of EBusiness and E-Commerce.  
* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
GEB 1940*  
Internship - Business,  
3 credit hours,  
(Fall, Spring, Summer)  
On-the-job training in the Associate of Science/Applied Science Option program in which the student is enrolled. The student is under the supervision at work of a qualified supervisor. The supervisor will rate the student’s performance, knowledge, comprehension, dependability, initiative, cooperativeness, and total performance. A project paper or approved project will be submitted by the student three weeks prior to the close of the semester. May be repeated four times for a total of 12 credit hours.

GEB 2137*  
E-Business – Models and Strategies,  
3 credit hours,  
(Offered as needed)  
This course focuses on business models with particular focus on the Internet as a facilitator of commerce. Students will also become familiar with how macro environments impact E-Commerce.

GEB 2138*  
E-Business Law and Ethics,  
3 credit hours,  
(Offered as needed)  
This course focuses on legal and ethical issues involved in forming web-based companies.

GEB 2430  
Business Ethics,  
3 credit hours,  
(Fall, Spring, Summer)  
This course addresses the legal, moral, and societal issues of ethical conduct in the business environment. Actual case studies are used to illustrate appropriate relationships among employers, employees, customers, stockholders, and other business stakeholders. Topics include: codes of ethics, laws and regulations related to ethics, conflict of interest, and moral philosophies associated with ethical conduct.

GEO 1200C  
Physical Geography,  
4 credit hours,  
(Offered as needed)  
This course investigates the relationship between the natural environment and humankind, including weather, climate, soils, biogeography and land forms. The study of the physical earth is treated so that the student gains an appreciation of man’s place in the environment.

GEB 2190C  
Historical Geology,  
4 credit hours,  
(Offered as needed)  
A study of the history of the earth, including the origin of continents, mountains and ocean basins as recorded in rocks and fossils. A survey of the fossil record and changes in animal and plant life throughout geological time will also be studied.

GEB 2110C  
Intro to Paleontology,  
4 credit hours,  
(Offered as needed)  
An introductory survey of the science of paleontology. Subjects include taphonomy, systematics, processes of evolution, causes of extinction, functional morphology, paleoecology, biogeography, and biostratigraphy. Laboratory work on the anatomy and classification of major phyla of both extinct and extant groups of organisms, including monerans, protists, plants, macroinvertebrates, and vertebrates. Field trips to local or regional fossil sites. This course may be used as a General Education science course for any A.S. or A.A.S. program. It may be used as a category III General Education science course in the A.A. degree.

GRA 1121C  
Desktop Publishing I,  
3 credit hours,  
(Offered as needed)  
This beginning level publishing course on a Macintosh computer will acquaint students with various software programs, clip-art, digital camera usage, and scanning; students will learn to produce flyers, ads, certificates, business cards, and other printed material.

GRA 1122C  
Desktop Publishing II,  
3 credit hours,  
(Offered as needed)  
This course is a continuation of Desktop Publishing I; the primary focus will be on the use of the software program InDesign for more advanced applications on a Macintosh computer. Prerequisite: GRA 1121C

GRA 1162C *  
Introduction to 3-D Graphics and Animation,  
4 credit hours,  
(Offered as needed)  
Introductory course in the basic tools, techniques, and applications of 3-D graphics and animation. Students will learn to manipulate objects, build models, employ lighting effects and design movement; all planned through careful story boarding and cinematic techniques.

GRA 2140C  
Multimedia I,  
4 credit hours,  
(Offered as needed)  
This course provides instruction and practical exercises in the use of the graphics software Photoshop to create, modify and generate color graphics to produce illustrations and charts on a Macintosh desktop publishing system.

GRA 2141C  
Multimedia II,  
4 credit hours,  
(Offered as needed)  
An advanced course covering basic principles of design affecting interactive multimedia presentations. Students will learn an interactive media authoring software application and its interaction with other supporting software applications. Students will produce a complete interactive CD-ROM title. Prerequisites: ART 2602C and ART 1600C.

GRA 2142C  
Multimedia III,  
4 credit hours,  
(Offered as needed)  
An advanced course covering principles of design affecting interactive multimedia presentations. Students will learn advanced functions of an interactive media authoring software application and supporting software. Students will produce a finished interactive CD-ROM title. Prerequisite: GRA 2140C.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△Technology-Across-the-Curriculum Course.
GRA 2142C *△
Web Design/Graphics,
4 credit hours,
(Offered as needed)
This course covers the designing,
preparation, and the publishing of
Home Pages using Hyper Text Markup
Language (HTML) for the World Wide
Web on the Internet, using Netscape
as the browser. This course is taught
from a graphics point-of-view using a
Macintosh.

GRA 2143C *△
Advanced Web Design/Graphics,
4 credit hours,
(Offered as needed)
An advanced course where students
will study an industry standard
WYSIWYG website development
tool. Students will produce more
sophisticated user interactivity and
page layout in a large website project.
This course is presented from a graphic
perspective. Prerequisite: GRA 2142C

GRA 2156C *△
Computer Graphics II,
4 credit hours,
(Offered as needed)
This course is a continuation of
Computer Graphics I. Advanced
Photoshop techniques and processes
will be covered using a Power
Macintosh desktop computer. This
is not a beginning level course and
requires prior knowledge/experience
with Adobe Photoshop. Prerequisite: GRA 2100C

GRA 2164C *△
Advanced Graphic Projects,
4 credit hours,
(Offered as needed)
This course is designed for the
advanced graphics student. The
student will call upon skills/knowledge
previously gained in other courses
and software programs to produce
several QTVR projects. This course
will be considered a capstone in the
progression of learning and is not a
beginning level course. Prerequisite: GRA 2100C

GRA 2173C *△
Projects in Graphic Design,
3 credit hours,
(Offered as needed)
An advanced course utilizing the
student’s full complement of skills and
abilities. The student will work under
the advisement of the faculty member
to produce a large multifaceted project
of their own design. Prerequisites: GRA 1121C, ART 1600C, GRA 2100C,
and ART 2602C.

GRA 2210C *△
Pre-Press Assembly,
4 credit hours,
(Offered as needed)
Classroom and lab experiences using
a computer to prepare both spot and
process color images, colorize artwork,
and print separations; students will
produce an 8-page booklet from
beginning to end. Prerequisites: GRA 1122C and GRA 2100C.

GRA 2900 *△
Independent Study – Graphic Art,
1 credit hour,
(Offered as needed)
Practical treatment of Graphics/
Printing Technology. Emphasis on
individual work projects. Prerequisite:
GRA 1121C

GRA 2905 *△
Independent Study
Graphics/Printing,
1 credit hour,
(Offered as needed)
The student will initiate independent
computer related work, utilizing
various software and hardware. The
course may be taken four times for
credit. Prerequisite: GRA 1121C

GRA 2949 *△
Directed Work Study
Graphics/Printing,
1 credit hour,
(Offered as needed)
The student will complete
computer-related work utilizing
various computer-related hardware
and software under the direct guidance
of an instructor. This course may be
taken four times for credit. Prerequisite: GRA 1121C

HIM 1282*
Basic Coding for Medical Records,
4 credit hours,
(Spring)
Development of nomenclature
and classification systems and an
introduction to ICD-9-CM and CPT
coding. Introduces the student to
Ambulatory Payment Classifications
(APCs) and Diagnostic Related Groups
(DRGs). Prerequisites: HSC 1531 and
BSC 1080.

HIM 2283C*
Advanced Coding for
Medical Records with Lab,
5 credit hours,
(Summer)
Advanced instruction in coding/ICD-
9-CM diagnoses, and procedures in
ICD-9-CM and CPT both manually
and automated. Provides sequencing
guidelines and rules and regulations
in both the hospital and physician
office setting. Prerequisites: HIM 1282,
knowledge of basic computer and
keyboarding skills.

HIM 2432*
Pathophysiology,
4 credit hours,
(Offered as needed)
Introduction to the nature, cause,
and treatment of disease entities and
the body’s defense mechanisms.
Commonly used drugs will also
be introduced.

HLP 1081
Wellness: Practice and Theory,
3 credit hours,
(Fall, Spring, Summer)
A course designed to promote
wellness through assessment,
instruction and fitness programs which,
if applied, will enable the individual to
achieve and/or maintain a high quality
of health and fitness throughout life.
Based on assessment test results a
physical examination by a physician
may be recommended.

HSA 1100
Introduction to Health Care,
2 credit hours,
(Offered as needed)
Introduction to the health care delivery
system and health related occupations.
Also safety, security, and infection
control procedures will be discussed.

* This college credit course is not intended
for transfer and may not be applied
forward the A.A. degree.
△Technology-Across-the-Curriculum
Course.
HSC 1100
Health Education,
3 credit hours,
(Offered as needed)
A systematic and comprehensive coverage of basic factual material, concepts, terminology, and important trends in major health areas of concern today.

HSC 1400
First Aid,
3 credit hours,
(Offered as needed)
Preparation to meet emergencies that occur in the school, home or on the highway. Instruction and practice in dressing and bandaging, care of wounds, shock, bone and joint injuries, cardiopulmonary resuscitation, transportation of the injured, oral poisoning and other medical emergencies.

HSC 1531
Medical Terminology,
3 credit hours,
(Offered as needed)
An introduction to prefixes, suffixes, root words, combining forms, Latin and Greek forms, spelling, and pronunciation, with emphasis on building a working medical vocabulary based on body systems.

HUM 1020 ♦
Humanities – Introduction,
3 credit hours,
(Fall, Spring, Summer)
A chronological survey of techniques and forms related to art, dance, film, literature, music, philosophy, religion and theatre. Art works and selected readings are utilized as much as possible. The course includes Writing-Across-the-Curriculum and Speaking-Across-the-Curriculum. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is also required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

HUM 2250 ♦
Humanities – A Contemporary Perspective,
3 credit hours,
(Fall, Spring, Summer)
This course is an integrated study of the artistic, cultural, philosophic, religious, social, and technological influences that shape modern western cultures in the modern era. The focus will begin with the 20th century and follow, chronologically, the issues of the modern era. Gordon Rule course which requires a minimum grade of “C” if used to satisfy Gordon Rule general education requirements. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

HUM 2700 ♦
Humanities – Foreign Study,
3 credit hours,
(Of needed)
A variable humanities content course designed to allow students first-hand learning experiences outside the United States. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is also required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

HUM 2920
Humanities Colloquium,
1 credit hour,
(Fall, Spring, Summer)
Humanities Colloquium is a lab designed to introduce students to critical visual and listening skills to become an intelligent arts consumer. Initial lecture sessions are devoted to discussions of the elements of analysis of art works, music pieces, theatre performances, and dance presentations. Students will be required to attend selected NWFS C Visual and Performance Arts presentations and to write a short critical review of each. Topics may vary. Prerequisite: Placement test may be required.

HUM 2930
Humanities – Special Topics,
3 credit hours,
(Fall, Spring, Summer)
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

HUM 2201 
Nutrition,
3 credit hours,
(Fall, Spring, Summer)
The role of nutrients in maintenance of physiological well-being. Application of nutrition principles to the individual and family as well as to some selected problems.

HUM 2410A
Child Nutrition and Health,
3 credit hours,
(Fall, Spring, Summer)
Methods of meeting physical needs of young children through nutrition and good health practices. Recognition of childhood diseases and care of the handicapped child.
students interested in a specialized area of the social sciences for which present course availability is limited. This course may be taken up to four times for credit.

**LIN 1670**  
Writing and Grammar,  
3 credit hours,  
(Fall, Spring, Summer)  
The course includes practice in writing short essays and encompasses a comprehensive review of grammar and mechanics. Placement is determined by (1) a grade of “C” or better in ENC 0080 or (2) by a score of 83 or above on the FCPT. This course is strongly recommended for students scoring 83-91 on the FCPT.

**LIN 1742**  
English Grammar and Style,  
3 credit hours,  
(Offered as needed)  
Principles and rules of traditional and modern English grammar and effective style.

**LIS 1001**  
Library Skills,  
1 credit hour,  
(Offered as needed)  
A course creating learning situations in which individual students can become effective independent users of Learning Resources facilities. This course is recommended for all degree-seeking students in their first term.

**LIS 2004 △**  
Introduction to Internet Research,  
1 credit hour,  
(Offered as needed)  
Introduction to Internet Research is a one-credit hour course offered by the Florida Public Community College system. This course is delivered via the World Wide Web and Internet e-mail. The course focuses on methods of accessing information resources available through the Internet. Students will learn to design search strategies, retrieve, evaluate, and cite Internet resources. The World Wide Web, e-mail, discussion groups, chat, FTP, Gopher, and Telnet are some of the topics covered. Prerequisite: A full service Internet account, including an electronic mail address from an Internet Service Provider (ISP), or access through a corporate or educational institution prior to beginning the course.

**LIT 2090 △**  
Contemporary Literature,  
3 credit hours,  
(Offered as needed)  
Studies in modern drama, prose, and poetry, focusing on their comments on modern man. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is also required. Prerequisite: ENC 1101

**LIT 2100 △**  
World Literature I,  
3 credit hours,  
(Fall, Spring, Summer)  
Designed to encourage students to know and appreciate the great literature that helps to mold their thinking and everyday living. Includes, without regard to national origin, those masterpieces of world literature, from antiquity through the Renaissance, that reflect cultural and intellectual heritage. May be used as a Humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet the Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: ENC 1101

**LIT 2120 △**  
World Literature II,  
3 credit hours,  
(Fall, Spring, Summer)  
Designed to encourage students to know and appreciate the great literature that helps to mold their thinking and everyday living. Includes, without regard to national origin, those masterpieces of world literature, from the Renaissance to the present, that reflect cultural and intellectual heritage. May be used as a humanities credit. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet the Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: ENC 1101

**LIS 2210C**  
Integrated Science and Math,  
3 credit hour,  
(Offered as needed)  
This interdisciplinary course investigates natural catastrophic events, such as earthquakes, volcanic eruptions, tsunamis, hurricanes and floods. This class will use an environmental studies approach to examine how modern society exacerbates the damage caused by these natural phenomena and methods to mitigate human suffering. The student will gain an appreciation of mankind's relationship to the natural environment.

**ISS 1905**  
Independent Study – Social Science,  
1 credit hour,  
(Offered as needed)  
Directed study and individual projects designed to meet the needs of
MAC 1105
College Algebra,
3 credit hours,
(Fall, Spring, Summer)
Function-based college algebra course which will include the following topics: functions and functional notation; domains and ranges of functions; graphs of functions and relations; operations on functions; inverse functions; linear, quadratic, and rational functions; absolute value and radical functions; exponential and logarithmic properties, functions, and equations; systems of equations and inequalities; and applications of functions (curve fitting, modeling, optimization, exponential/logarithmic growth and decay). Non-symbolic graphing calculators are required. The Ti-83 Series is recommended. Prerequisites: MAT 1033A “Intermediate Algebra” or equivalent with a “C” or better or suitable placement score.

MAC 1140
Pre-Calculus Algebra,
3 credit hours,
(Fall, Spring, Summer)
First course in a two-course pre-calculus sequence. Covers equations and inequalities; linear, quadratic logarithmic and exponential functions and relations; systems of equations, matrices and determinants, mathematical proof techniques, including mathematical induction. Binomial theorem, sequences and series; and applications of algebraic techniques in the real world. Non-symbolic graphing calculators are required. The Ti-83 Series is recommended. Prerequisite: Completion of MAC 1105 with a grade of “C” or better, or equivalent.

MAC 1147
Precalculus Algebra/Trigonometry,
4 credit hours,
(Offers as needed)
This course reviews algebra and trigonometry. Topics include polynomial, rational, exponential, logarithmic, and trigonometric functions, inverse functions, trigonometric identities and equations, solutions of triangles, vector algebra, topics from analytical geometry, sequences, series, mathematical induction and the binomial theorem. Non-symbolic graphing calculators are required. The Ti-83 Series is recommended. Prerequisite: High School trigonometry with a “B” or better.

MAC 1154
Analytic Geometry,
3 credit hours,
(Offers as needed)
Typical modern analytic geometry course in two and three-dimensional space. Prerequisite: Completion of MAC 1140 and MAC 1114 with a grade of “C” or better or equivalent.

MAC 2233
Calculus for Business,
3 credit hours,
(Fall, Spring, Summer)
A Calculus course covering limits, continuity, differentiation, and integration with emphasis on business applications. There is some mathematical theory; but in general, topics are approached from an intuitive and applied point of view. Non-symbolic graphing calculators are required. The Ti-83/84 series is recommended. Prerequisite: Grade of “C” or better in MAC 1140 or equivalent course from other institutions. This course may be taken concurrently with MAC 1140 with special permission of the Mathematics Department.

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
MAC 2313
Calculus III,
4 credit hours,
(Fall, Spring, Summer)
Third course in a three-course sequence. Vectors and vector functions; dot product, cross product, curvature, and motion in space; quadric surfaces; functions of two or more variables, partial derivatives, gradients, directional derivatives, tangent lines and planes, and application of partial derivatives to maxima/minima; Lagrange multipliers, Taylor’s formula; multiple integrals in rectangular, cylindrical, and spherical coordinates, and their applications; line integrals; Green’s theorem, surface area, the divergence theorem and Stokes’s theorem. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. Prerequisite: Completion of MAC 2312 with a grade of “C” or better, or equivalent.

MAN 2021
Management,
3 credit hours,
(Fall, Spring, Summer)
Each function of management is analyzed and described in a systematic manner. Both the distilled experience of practical managers and the findings of scholars are presented. Other aspects of management are presented such as management process and concepts analysis of the technical knowledge and skills of managers, influences upon managerial decision-making process, and the psychological principles inherent in management.

MAN 2300
Personnel Management,
3 credit hours,
(Fall, Spring, Summer)
An introduction to personnel practices and procedures. Topics include the personnel management system, maximizing employee potential, organizational behavior, and labor management relations.

MAP 2302
Differential Equations,
3 credit hours,
(Fall, Spring)
An introduction to ordinary differential equations with an emphasis on first and second order linear equations and applications. Prerequisite: Either completion of MAC 2313 with a “C” or better or concurrent enrollment in MAC 2313. Equivalent courses from other institutions may be used to meet the prerequisite.

MAT 2905
Independent Study – Mathematics,
1 credit hour,
(Fall, Spring, Summer)
A course designed to allow a student to complete part of a course taken elsewhere and thereby complete general education requirements or to go deeper into special areas of interest. Prerequisite: Passing score on placement exam.

MAT 2011
Introduction to Marketing,
3 credit hours,
(Fall, Spring, Summer)
An introductory course in the field of marketing including a look at marketing as it exists in our economy today. Consideration of the market, the product, distribution channels. Special emphasis on the study of human behavior in marketing promotion.

MAS 2103
Linear Algebra,
3 credit hours,
(Offers as needed)
An introductory course in Linear Algebra intended to give students enough insight to enable successful pursuit of more abstract mathematics courses. Non-symbolic graphing calculators are required. The TI-83 series is recommended. Prerequisite: MAC 2312 with a grade of “C” or better, or equivalent.

MAT 1033A
Intermediate Algebra,
4 credit hours,
(Fall, Spring, Summer)
An intermediate algebra course to prepare students for general education mathematics/statistics courses. This course emphasizes concepts, techniques, and applications of the following major topics: factoring, algebraic functions, radicals and rational exponents, complex numbers, quadratic equations, rational equations, two-variable linear equations/inequalities and their graphs, systems of linear equations and inequalities, and an introduction to functions. Prerequisite: suitable placement score or completion of MAT 0024 (or equivalent) with a grade of “C” or better and a passing score on the college prep algebra exit exam. This course may be used as an elective, but does not meet Gordon Rule requirements for B.A.S., A.A., or A.S. transfer students.

MCB 2010C
Microbiology, Allied Health,
4 credit hours,
(Fall, Spring, Summer)
This course is designed for students entering programs in the numerous health fields, but primarily for pre-nursing students. The material presented covers the fundamentals of microbiology needed to understand the biology of infectious diseases and the agents that cause them. Not recommended for biology, pre-med, pre-vet, and dentistry. Prerequisite: CHM 1025 or CHM 1045C or BSC 1005 or BSC 1010C or BSC 1085C.

MET 1010
Introduction to Meteorology,
4 credit hours,
(Fall, Spring)
Structure of the atmosphere, weather processes, systems and phenomena; climate and climatic change, economic impact of weather.

MGF 1106
Mathematics for Liberal Arts I,
3 credit hours,
(Fall, Spring, Summer)
This course is designed for those students requiring only general education mathematics courses. It includes systematic counting, probability, statistics, history of mathematics, geometry, sets, and logic. Prerequisite: MAT 1033A or higher mathematics course with a grade of “C” or better, or equivalent placement score.

MGF 1107
Mathematics for Liberal Arts II,
3 credit hours,
(Fall, Spring, Summer)
This course is designed for those students requiring only general education mathematics courses. Topics include numeration and mathematical systems, number theory, linear and exponential growth, history of mathematics, voting techniques, graph theory, and consumer mathematics. Prerequisites: MAT 1033A or higher level math with a grade of “C” or better, or equivalent or appropriate placement score.
MGA 1200
Practical Mathematics,
3 credit hours,
(Offered as Needed)
This course is designed for students
wishing to enter the fields of computer
technology, business and finance, and
medical services. It includes basic
instruction on decimals, fractions,
percents, ratio and proportion, signed
numbers, order of operations, solving
simple one-step equations, measures of
central tendency, interest and discount,
weights and measures, temperature
conversion, basic geometric figures
and formulas, chart and graph
interpretation, and solving
word problems.

MGA 2118
Math Preparation for CLAST,
1 credit hour,
(Offered as needed)
A short course dealing with
mathematical skills needed for
successful completion of coursework
in a variety of disciplines. Prerequisite:
Completion of a general education
mathematics course.

MKA 2021*
Professional Selling,
3 credit hours,
(Offered as needed)
Selling, correct attitudes and personal
attributes for dealing with the public
on a business or professional basis.

MKA 2041*
Retail Management,
3 credit hours,
(Fall, Spring, Summer)
Retail store management, location,
buying merchandise, control policies,
services, pricing, expenses, profits:
training and supervision of retail
sales forces, administrative problems.
Also includes a variety of current
perspectives in retailing management.

MKA 2511*
Introduction to Advertising,
3 credit hours,
(Fall, Spring, Summer)
Advertising as a marketing tool, its
planning, creation, and use. A survey of
copy writing, layout, and media
(newspapers, magazines, radio,
television, films, etc.)

MNA 1016*
ISO 9000 - Industrial Management,
3 credit hours, 45 lec.
(Offered as needed)
ISO 9000 is the international standard
for Quality Management Systems that
promote efficiency, competitiveness,
consistency, and international
recognition in virtually all types of
organizations. This course prepares
individuals to guide an organization
through the steps necessary for ISO
9000 registration and subsequent
audits and triennial re-registration, or
to be effective participants (employees
of any rank) in an organization already
registered to ISO 9000.

MNA 1161*
Customer Service,
3 credit hours,
(Fall, Spring, Summer)
Designed to build and maintain the
critical skills necessary to be a dynamic
and successful professional. Students
and front-line individuals who work
with customers every day will develop
strategies to create positive customer
relationships. This course provides
a practical approach to the thorny
issues of customer dissatisfaction
and will enable managers to keep
service personnel focused on the
organization’s goals and objectives.

MNA 1345*
Supervision I,
3 credit hours,
(Fall, Spring, Summer)
The course presents the functions of
a personnel manager, philosophy of
general management, organizational
structure, employer socioeconomic
climate and career information.
Included also are job descriptions and
specifications, recruiting practices,
applications, resumes, interviewing,
placement, performance appraisals,
wage and salary administration and
other related topics.

MNA 1346*
Supervision II,
3 credit hours,
(Offered as needed)
The course presents a continuing
study of the functions of a
personnel manager, philosophy of
general management, employee
so socioeconomic climate and other
information. Included, also, are
orientation, training, labor unions,
safety, health and other related topics.

MNA 2100*
Organizational Behavior,
3 credit hours,
(Offered as needed)
This interdisciplinary course addresses
leadership in a group setting and
focuses on leadership development
through discussion, readings, group
and individual projects and other
applied activities.

MNA 2141
Leadership Techniques,
3 credit hours,
(Offered as needed)
This interdisciplinary course addresses
leadership in a group setting and
focuses on leadership development
through discussion, readings, group
and individual projects and other
applied activities.

MNA 2141A
Interdisciplinary
Leadership Development,
3 credit hours,
(Offered as needed)
This course is designed to provide
emerging and existing leaders the
opportunity to explore the concept
of leadership and to develop and
improve their leadership skills. The
course integrates readings from history,
natural science and the humanities,
experiential exercises, films, and
contemporary readings on leadership
and related topics.

MSL 1001
Foundations of Officership,
1 credit hour,
(Fall)
This course examines the unique
duties and responsibilities of officers,
organization and role of the Army,
reviews skills pertaining to fitness and
communication, and analyzes Army
values and expected ethical behavior.
Requires participation in a weekly
one-hour leadership laboratory.
Students are required to participate in
a one-hour physical training session
three times a week and will be
evaluated on their performance of the
Army Physical Fitness Test.

MSL 1002
Basic Leadership,
1 credit hour,
(Spring)
This course presents fundamental
leadership concepts and doctrine,
the practice of basic skills that
underlie effective problem solving,
and examines the officer experience.
This course requires participation in a
weekly one-hour leadership laboratory.
Students are required to participate in
a one-hour physical training session
three times a week and will be
evaluated on their performance of the
Army Physical Fitness Test.

* This college credit course is not intended
for transfer and may not be applied
 toward the A.A. degree.
MSL 2101
Individual Leadership Studies,
2 credit hours,
(Fall)
This course develops knowledge of self-confidence and individual leadership skills. It develops problem solving and critical thinking skills, as well as how to apply communication, feedback, and conflict resolution skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

MSL 2102
Leadership and Teamwork,
2 credit hours,
(Spring)
This course focuses on self-development guided by knowledge of self and group processes, challenges current beliefs, knowledge, and skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test.

MSL 2905
Independent Study - Military Science and Leadership,
1 credit hour,
(Offered as needed)
Directed study and/or individual project designed to meet the needs and interests of students in ROTC. This course develops knowledge of self, self-confidence, and individual leadership skills. It develops problem and critical thinking skills, as well as how to apply communication, feedback, and conflict resolution skills. This course requires participation in a weekly one-hour leadership laboratory. Students are required to participate in a one-hour physical training session three times a week and will be evaluated on their performance of the Army Physical Fitness Test. Prerequisite: ROTC Sophomore Standing and Departmental Approval. This course may be taken up to four times for credit.

MTB 1103*
Business Mathematics,
3 credit hours,
(Fall, Spring, Summer)
Presents basic principles used to solve everyday business problems, including a review of basic skills and business terminology. Topics in the course include: base, rate and percentage; trade and cash discounts, wage and salary administration; insurance (fire and automobile); depreciation and business profits; distribution of corporate dividends; simple interest and bank discount and buying and selling of corporation bonds and stocks.

MTB 1321*
Technical Math I,
3 credit hours,
(Fall, Spring, Summer)
This course will include basic arithmetic and algebraic operations, converting between scientific and engineering notations; solving linear equations and inequalities, converting units of measure, using linear equations to solve problems in science and technology applications, and solving geometry applications by geometry of triangle concepts. Prerequisite: MAC 0024 with a “C” or better or satisfactory test scores.

MTG 2206
College Geometry,
3 credit hours,
(Offered as needed)
This course is designed for students pursuing an education degree with an emphasis in middle school mathematics. The course emphasizes Euclidean geometry and its relationship to logic, trigonometry, and coordinate geometry. The problems, proofs, constructions, and graphs involve line segments, angles, triangles, and polygons, parallel and perpendicular lines, slope of lines, circles, and similarity. Trigonometry is presented in terms of right triangle relationships. Logic is the basis for deductive reasoning in proofs of theorems, and lines and other geometric figures are graphed in the rectangular coordinate system. Prerequisite: MAC 1105 or equivalent with a “C” or better, or appropriate placement score.

MUH 2930
Music Humanities – Special Topics,
3 credit hours,
(Fall, Spring, Summer)
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

MUM 1620
Audio and Acoustic Fundamentals,
3 credit hours,
(Offered as needed)
Audio and Acoustic Fundamentals explores the basics of audio systems and equipment and the acoustical environment in which they are used. Emphasis is placed on equipment terminology, function and acoustical listening. The two basic fundamentals are summed together to begin laying the basic foundation required to operate audio and recording equipment. Corequisite: MUM 2600L.

MUM 2300
Introduction to the Music Industry,
3 credit hours,
(Fall, Spring, Summer)
This course is an introduction to the history, principles, and practices of the music industry. Topics will include music publishing, copyright, distribution, industry organization, producing, and general business functions.
MUM 2600  
Recording Techniques I,  
3 credit hours,  
(Fall, Spring, Summer)  
This course is designed as an introduction to basic audio engineering and studio practices. Listening exercises, psychoacoustics, microphone characteristics, and studio etiquette will be studied. In addition the student will study techniques and practices of multi-track recording, acoustical balancing, editing, and over dubbing in a variety of situations. Prerequisite: MUM 1620; Corequisite: MUM 2601L.

MUM 2600L  
Recording Lab,  
2 credit hours,  
(Fall, Summer, Spring)  
This course is designed to provide students with “hands on” experience for the instructional material in MUM 1620, MUM 2600, MUM 2601, and MUM 2604. This lab course is required for each of the above listed courses, and may be taken (4) times for credit. Prerequisite: Student proficiency in Windows operating system currently in use in the Music Theory Lab. NOTE: This course is a corequisite for MUM 2600, MUM 2601, and MUM 2604; however, MUM 2601 is not a corequisite for this course. This course may be taken alone.

MUM 2601  
Recording Techniques II,  
3 credit hours,  
(Fall, Spring, Summer)  
This course explores advanced multi-track recording skills and audio production techniques, edits, use of outboard equipment and live multi-track recording. Prerequisite: MUM 2600; Corequisite: MUM 2600L.

MUM 2604  
Multi-Track Mixdown  
(Post Production),  
3 credit hours,  
(Fall, Spring, Summer)  
This course explores the application of signal processing equipment as it relates to multi-track master mixdowns. In addition, software and hardware application of mixdown is applied to post-production practices. Prerequisite: MUM 2601; Corequisite: MUM 2600L.

MUN 1000  
Summer Ensemble Workshop,  
3 credit hours,  
(Summer)  
An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop will be expected to participate in several scheduled performances. Prerequisite: Experience in high school or a desire to learn.

MUN 1001  
Summer Ensemble Workshop II,  
3 credit hours,  
(Summer)  
An ensemble workshop and performance to improve vocal and physical presentation skills. A variety of musical physical styles will be studied and performed. Students participating in Summer Ensemble Workshop II will be expected to participate in several scheduled performances. Prerequisite: MUN 1000.

MUN 1002  
Summer Ensemble Workshop III,  
3 credit hours,  
(Summer)  
An ensemble workshop open to any student who desires to improve vocal and physical presentation skills. A variety of musical physical styles will be studied. Students participating in Summer Ensemble Workshop III will be expected to participate in several scheduled performances. Prerequisite: MUN 1001.

MUN 1180  
NWFSC Band (Community),  
1 credit hour,  
(Offered as needed)  
A music organization providing an outlet and learning experience for all music majors and performance minors. This course may be taken four times for credit.

MUN 1310  
NWFSC Chorus I,  
1 credit hour,  
(Offered as needed)  
A music organization open through auditions to any student having experience in reading music. A variety of musical styles will be studied and performed. Students electing NWFSC Chorus will be expected to participate in scheduled performances. MUN 1310 may be taken four times for credit. Prerequisite: Experience in high school choruses or choirs.

MUN 1340A  
NWFSC Show Choir I,  
1 credit hour,  
(Fall, Spring)  
A study of the fundamental techniques and principles of integrating dance, voice, music and acting into a performance show choir. Training in voice, jazz movement, character interpretation and personality presentation is covered. Membership is open to all part-time or full-time students on a credit or audit basis. All music majors and performance majors must participate. The show choir appears in public performances at frequent intervals throughout the year. Prerequisite: Audition, consent of Department, music or performance minor. This course may be taken four times for credit.

MUN 1360  
Madrigal Singers I,  
1 credit hour,  
(Offered as needed)  
A course teaching madrigal styles to include a cappella, Renaissance madrigals (choral settings of love songs), as well as choral folk songs. May be repeated four times for credit. Prerequisites: Audition based on vocal quality, musicianship and sight reading ability.

MUN 1390  
Symphonic Chorus I,  
1 credit hour,  
(Fall, Spring)  
A music organization open through auditions to any student. The Symphonic chorus will study and perform literature for the large sized chorus. Prerequisite: Audition or permission of instructor. May be taken up to four times for credit.
MUN 1421
Flute Ensemble,
1 credit hour,
(Fall, Spring)
The study and performance of flute ensemble and flute choir music in a musical group. May be taken four times for credit. Prerequisite: Audition or instructor recommendation only.

MUN 1710A
Rock and Jazz Ensembles I,
1 credit hour,
(Offered as needed)
Music performing organization open to any student who wants to develop his or her performance repertoire. Laboratory studies include techniques of performing music, literature, practices, styles and media applicable to designated organized ensemble. Prerequisite: Some experience in high school bands, etc. This course may be taken up to four times for credit.

MUN 1711
Jazz Workshop,
1 credit hour,
(Offered as needed)
The study and performance of jazz music in the context of the small ensemble. This will be accomplished through the performance of both stock arrangements and student arrangements. Instrumentation: 5 wind, 4 rhythm, voice. This course may be taken up to four times for credit. Prerequisite: Strong music performance background with basic knowledge of the jazz idiom.

MUN 1720A
Rock and Jazz Ensembles II,
1 credit hour,
(Fall, Spring)
Music performing organization open to any student who wants to develop his or her performance repertoire. Laboratory studies include techniques of performing music, literature, practices, styles and media applicable to designated organized ensemble. Prerequisite: Some experience in high school bands, etc. This course may be taken up to four times for credit.

MUN 2120
NWFSC Band Community II,
1 credit hour,
(Offered as needed)
A music organization providing an outlet and learning experience for both college students and wind or percussion players to read and perform standard band literature, transcriptions and program selections. Required of all wind or percussion music majors and minors. May be taken four times for credit. Prerequisite: MUN 1180

MUN 2211
NWFSC Symphony Orchestra II,
1 credit hour,
(Fall, Spring)
A music organization providing an outlet and learning experience to study and perform standard orchestra literature, to improve individual instrumental skills, and to sharpen ensemble techniques. The Symphony occasionally performs with guest artists, choral groups and theatre ensembles. This course may be taken four times for credit.

MUN 2361
Madrigal Singers II,
1 credit hour,
(Fall, Spring)
Madrigal Singers is an advanced choral ensemble composed of approximately 12 to 14 singers. May be taken four times for credit. Prerequisite: MUN 1360

MUN 2371
NWFSC Show Choir II,
1 credit hour,
(Fall, Spring)
A study of the fundamental techniques and principles of integrating dance, voice, music and acting into a performance show choir. Training in voice, jazz movement, character interpretation and personality presentation is covered. Membership is open to all part-time or full-time students on a credit or audit basis. All music majors and performance majors must participate. The show choir appears in public performances at frequent intervals throughout the year. Prerequisite: MUN 1340A, Show Choir I. This course may be taken up to four times for credit.

MUS 2930
Music – Special Topics,
3 credit hours,
(Fall, Spring, Summer)
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

MUT 1001
Fundamentals of Music,
3 credit hours,
(Fall, Spring)
A pre-theory course for the nonmusic major, or for the elementary education major. Included are the studies of reading clefs, rhythm, notation, scales, and doing simple keyboard and sight singing exercises. The emphasis is on developing music reading skills.

MUT 1121 △
Music Theory I - Ear Training and Sight Singing,
3 credit hours,
(Offered as needed)
A study of the fundamentals of basic musicianship, music notation, understanding of simple rhythms, key situations, intervals, ear training, dictation, sight singing, major and minor scales, intervals, triads, chords, polyphonic composition and elementary keyboard work. Prerequisite: MUT 1001 or instructor permission.

△Technology-Across-the-Curriculum Course.
MUT 1122
Music Theory II -
Ear Training and Sight Singing,
3 credit hours,
(Offered as needed)
A continuation of MUT 1121. Basic musicianship, writing and reading of music, ear training, dictation, sight singing will be studied, as well as major and minor scales, intervals, triads, seventh chords, inversions, cadences, periods and progressions in all keys. Two, three and four part chords and polyphonic composition. Prerequisite: MUT 1121

MUT 1641
Jazz Improvisation I,
2 credit hours,
(Fall, Spring)
A course designed to introduce the student to the concepts of Jazz Improvisation. Through active participation the student will develop the basic skills necessary to become a competent jazz soloist. This course may be taken two times for credit. Prerequisite: MUT 1121

MUT 2126
Music Theory III -
Ear Training and Sight Singing, 3 credit hours,
(Offered as needed)
A continuation of MUT 1121 and MUT 1122. The harmonization and modulation of melodies through the use of nondominant harmony and the study of sequence writing. Incorporates keyboard harmony plus sight reading of chromatic melodies, large intervals, and advanced rhythms. Prerequisite: MUT 1122

MUT 2127
Music Theory IV -
Ear Training and Sight Singing, 3 credit hours,
(Offered as needed)
The continued study of harmonization of melodies, sequence writing, sight reading, intervals, advanced rhythms and structures. Prerequisite: MUT 2126

MUT 2351
Introduction to Jazz Theory/Arranging,
3 credit hours,
(Offered as needed)
A lecture-demonstration-workshop, approach to jazz/ pop arranging open to any student who wants to begin or understand composing/arranging. Studies include jazz/pop harmonies, arranging fundamentals and techniques, and the use of jazz/pop instrumentation. Workshop practices include assigned arrangements with the arrangements played by the jazz ensemble, and other audio demonstrations. Prerequisite: MUT 1122

MUT 2642
Jazz Improvisation II,
2 credit hours,
(Fall, Spring)
A continuation of MUT 1641 Jazz Improvisation I. This course is designed to further develop the skills needed to become a competent soloist in the jazz idiom. This course may be taken two times for credit. Prerequisite: MUT 1641

MVB 1201
Applied Music Secondary – Brass I, 1 credit hour,
(Offered as needed)
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors. Course may be taken four times for credit. Prerequisite: MVB 1201

MVB 2202
Applied Music Secondary – Brass II, 1 credit hour,
(Offered as needed)
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For nonmusic majors and music majors. Course may be taken four times for credit. Prerequisite: MVB 1201

MVK 1211
Applied Music – Piano I, 1 credit hour,
(Fall, Spring, Summer)
Private instruction in piano, as secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required. Course may be taken four times for credit.

MVK 2221
Applied Music – Piano II, 1 credit hour,
(Offered as needed)
Private instruction in piano, as a secondary instrument, consisting of one half-hour lesson per week. Minimum of one hour daily practice is required. Course may be taken four times for credit. Prerequisite: MVK 1211

MVP 1201
Applied Music Secondary – Percussion I, 1 credit hour,
(Offered as needed)
Private instruction in percussion instruments to develop the student’s performance ability in an applied area. One half-hour private lesson per week. Minimum of one hour daily practice is required. Course may be taken four times for credit. Prerequisite: MVP 1201

MVP 2202
Applied Music Secondary – Percussion II, 1 credit hour,
(Offered as needed)
Private instruction in percussion instruments to develop the student’s performance ability in an applied area. One half-hour private lesson per week. Minimum of one hour daily practice. Course may be repeated four times for credit. Prerequisite: MVP 1201

MVS 1016
Applied Strings – Guitar I, 1 credit hour,
(Fall, Spring, Summer)
Private instruction on guitar. Designed to equip the student for continuing study leading progressively to greater proficiency. May be taken four times for credit.

MVS 1017
Applied Strings – Bass Guitar I, 1 credit hour,
(Fall, Spring, Summer)
Private instruction on guitar. Designed to equip the student for continuing study leading progressively to greater proficiency. May be taken four times for credit.

MVS 1111
Class Guitar, 1 credit hour,
(Fall)
The study of basic techniques for the beginning and continuing student.

MVS 1201
Applied Music Secondary – Strings I, 1 credit hour,
(Offered as needed)
Private instruction: one half-hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors. Course may be taken four times for credit.

MVS 2026
Applied Strings – Guitar II, 1 credit hour,
(Fall, Spring, Summer)
Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency. May be taken four times for credit. Prerequisite: MVS 1016

△Technology-Across-the-Curriculum
MVS 2027
Applied Strings – Bass Guitar II, 1 credit hour,
(Offered as needed)
Private instruction in guitar. Designed to equip the student for continuing study leading progressively to greater proficiency. May be taken four times for credit. Prerequisite: MVS 1017

MVS 2202
Applied Music Secondary – Strings II, 1 credit hour,
(Offered as needed)
Private instruction: one-half hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors. Course may be taken four times for credit. Prerequisite: MVS 1201

MVV 1211
Applied Music – Voice I, 1 credit hour,
(Fall, Spring, Summer)
Private instruction: one-half hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors. Course may be taken four times for credit. Prerequisite: MVV 1211

MVV 2221
Applied Music – Voice II, 1 credit hour,
(Offered as needed)
Private instruction: one-half hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors. Course may be taken four times for credit. Prerequisite: MVV 2221

MVV 1201
Applied Music Secondary – Woodwinds I, 1 credit hour,
(Offered as needed)
Private instruction: one-half hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors. Course may be taken four times for credit. Prerequisite: MVV 1201

MVV 2202
Applied Music Secondary – Woodwinds II, 1 credit hour,
(Offered as needed)
Private instruction: one-half hour private lesson per week. Minimum one hour daily practice. For non-music majors and music majors. Course may be taken four times for credit. Prerequisite: MVV 2202

NUR 1021C
Nursing Process I, 6 credit hours,
(Fall)
This course introduces concepts and principles of holistic nursing care. Students will build on knowledge obtained in the biophysical and psycho-social sciences in the first of four required clinical nursing courses in the nursing curriculum. Theory content includes an introduction to the healthcare system; ethical-legal aspects of nursing practice; health and illness with emphasis on the older adult; functional health patterns of clients; stress-adaptation; professional behaviors (e.g., caring behaviors); communications and all steps of the nursing process with emphasis on assessment of clients. Students begin socialization into the role of the Associate Degree Nurse as a member of an interdisciplinary health care team. Prerequisite: Admission to the Nursing Program or permission of the Director of Nursing; Corequisites: BSC 1085C or BSC 1086C, DEP 2004. Special Nursing Program policies may apply to this course.

NUR 1021L
Nursing Process I Clinical Experience, 4 credit hours,
(Fall)
An introduction to the role of the Associate Degree Nurse in providing direct, holistic nursing care to young, middle-aged and older adults who are hospitalized or receiving care in community settings. Emphasis is on applying all steps of the nursing process with focus on assessment skills. Prerequisite college foundation and nursing courses provide theoretical bases for nursing care. Critical thinking is an expected behavior along with skills in working ethically and effectively with peers and other health care professionals as a team member; caring behaviors and therapeutic communication with clients as a provider of bedside, technical nursing care of hospitalized adults and nursing home residents. The student is expected to demonstrate safe performance of basic nursing skills, e.g., medication administration, physical assessment and comfort care. Prerequisite: Admission to the Nursing Program or permission of the Director of Nursing; Corequisites: NUR 1021C. Special Nursing Program policies may apply to this course.

NUR 1141L
Pharmacologic Principles in Nursing, 1 credit hour,
(Spring)
This course provides an introduction to concepts and principles of pharmacology related to safe administration of therapeutic agents by the nurse. Students learn major drug classifications and selected prototypes along with principles of safe, effective administration of drugs and other therapeutic agents. By the end of the course, students must apply computation skills to demonstrate administration of drugs without error in order to successfully pass the course and progress in the nursing program. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1021C, BSC 1085C, BSC 1086C, DEP 2004; Corequisites: NUR 1231C, NUR 1750L; MCB 2010C, SYG 2000. Special Nursing Program policies may apply to this course.

NUR 1200C
Orientation to AD Nursing, 5 credit hours,
(Summer)
This course gives LPNs and other special students an opportunity for advanced placement in the nursing program via reviewing and validating prior learning. Course content includes review of functional health patterns of the childbearing adult, selected topics related to acute care of hospitalized adults, the geriatric client and the newborn; the nursing process, holistic care planning and pharmacologic principles of nursing. Critical thinking is stressed as students transition into the Associate Degree Nursing student role. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, BSC 1085C, BSC 1086C, HUN 2201, SYG 2000, ENC 1101, DEP 2004 and LPN Licensure or equivalent education; Corequisites: MCB 2010C, NUR 1200L. Special Nursing Program policies may apply to this course.
NUR 1200L
Orientation to
AD Nursing Clinical Experience,
2 credit hours,
(Summer)
This course is designed for LPNs and other special students; an opportunity for advanced placement in the nursing program via reviewing and validating prior learning. Students will learn physical assessment skills, holistic care planning and demonstrate nursing skills at the bedside of clients in acute care settings, i.e., the perioperative client, the obstetrical client and newborn. Critical thinking is stressed as students transition into the associate degree nursing student role. Successful completion of this course will allow students to progress to the second year of the nursing program. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, BSC 1086C, HUN 2201, SYG 2000, ENC 1101, DEP 2004 and LPN licensure or equivalent education; Corequisites: MCB 2010C, NUR 1200C. Special Nursing Program policies may apply to this course.

NUR 1231C
Nursing Process II,
5 credit hours,
(Spring)
The nursing process continues with emphasis on the planning of nursing care for adult clients experiencing threats to functional health patterns, including women and infants within a significant support system (e.g., families). Basic concepts and principles of holistic nursing are built upon with interpersonal relationships focusing on the new parent, grandparents and older adult clients. Practice issues focus on legal-ethical cases related to maternal-child and family care. Professional behaviors, (e.g., therapeutic relationships) continue with students working with the geriatric client through the life review process and with clients in crises. Students further develop critical thinking skills through seminars and computer aided instruction planned to provide students with problem solving skills in analyzing, planning and prioritizing care for clients whose health problems are more acute or chronic; the client with psycho-emotional dysfunctions, dysfunctional support systems situations, grief and loss. Students learn basic management skills as a team member in caring for a limited number of clients in hospitals with emphasis on coordination of nursing care and discharge planning. Conflict management skills are highlighted as the student increases role as client advocate. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1021C, NUR 1021L, BSC 1085C or BSC 1086C; Corequisites: NUR 1750L, NUR 1141L, MCB 2010C, SYG 2000, Special Nursing Program policies may apply to this course.

NUR 1750L
Nursing Process II -
Clinical Experience,
4 credit hours,
(Spring)
Continuation of the role of the Associate Degree Nurse in providing direct, holistic nursing care for adult clients during the childbearing process and/or experiencing dysfunctional health patterns. Clinical experiences in hospitals, clinics, long term facilities and community settings provide students with opportunities to plan, prioritize and begin to evaluate the effectiveness of bedside nursing care of adult perioperative clients, elderly geriatric clients who benefit from a life review process, newborns and other clients experiencing situational and/or maturational crises. Students continue to develop management skills through conflict management and other professional behaviors. Students demonstrate safe performance of all basic and more complex nursing skills. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1021C, NUR 1021L; BSC 1085C or BSC 1086C; Corequisites: NUR 1231C, NUR 1141L, MCB 2010C, SYG 2000. Special Nursing Program policies may apply to this course.

NUR 1940L
Nursing Clinical Externship,
3 credit hours,
(Summer)
This elective course is designed to offer students the opportunity to gain additional clinical skills practice between the first and second year of the program. Working with a preceptor and the nursing faculty, the student will be able to perform all skills learned in the first two nursing courses in area hospitals, clinics or nursing homes as arranged by the instructor. Prerequisites: Admission to the Nursing Program or permission of the Director of Nursing, NUR 1231C/NUR 1750L; NUR 1141L. Special Nursing Program policies may apply to this course.

NUR 2233C
Nursing Process III,
6 credit hours,
(Fall, Spring)
Students continue to use the nursing process and critical thinking with emphasis on primary and secondary prevention as nursing interventions in clients experiencing threats to functional health patterns, including adults and children whose normal lines of defense have been invaded by stressors to the degree that hospitalization is necessary. Nursing practice issues continue to focus on ethical-legal issues related to acute and/or chronic illness and disability. Management skills include delegation and career development. Prerequisites: NUR 1231C, NUR 2811L; Corequisite: NUR 2233L. Special Nursing Program policies may apply to this course.

NUR 2233L
Nursing Process III -
Clinical Experience,
4 credit hours,
(Fall, Spring)
Students continue to apply knowledge and skills learned in previous nursing courses in providing nursing care for hospitalized adults and children whose health problems are more complex and/or chronic. Clinical sites include health departments, clinics, physician offices, schools and other community settings. Students adapt therapeutic skills to meet the needs of clients experiencing psycho-emotional dysfunctions to the extent that they may be hospitalized. Students apply conflict resolution skills as needed to meet client and/or peer learning goals; they also begin to practice delegation skills with their peers. Students demonstrate continuation of all previously learned nursing skills and must perform safely all advanced nursing skills in this course. Prerequisites: NUR 1231C, NUR 1750L, MCB 2010C; Corequisite: NUR 2233C. Special Nursing Program policies may apply to this course.
NUR 2241C  
Nursing Process IV,  
5 credit hours,  
(Fall, Spring)  
Students integrate knowledge and principles of the biophysical and psychosocial sciences to solve life-threatening problems that affect a limited number of critically ill clients in a variety of clinical settings. Students differentiate holistic nursing care therapies in primary, secondary and tertiary care settings. Students become proficient in applying all steps in the nursing process with emphasis on evaluating nursing care outcomes. Students apply critical thinking skills in exploring case-based practice situations and work together in learning seminars to select effective client care improvement processes. Self-evaluation is part of the socialization process to prepare students for the work world as competent, caring staff nurses. Nursing practice issues include licensure standards and continued professional development. Prerequisites: NUR 2233C; Corequisite: NUR 2241L. Special Nursing Program policies may apply to this course.

NUR 2241L  
Nursing Process IV - Clinical Experience,  
4 credit hours,  
(Fall, Spring)  
Students apply knowledge and principles of the biophysical and psychosocial sciences to assess, plan, implement and evaluate holistic nursing care of critically ill adults in hospitals, nursing homes, ambulatory care settings, and the home. Students will expand on management of care skills in preparation for their four-week clinical practicum prior to graduation from the program. Students will also shadow a home health/hospice nurse in observing treatment and palliative care of adults and children. Students must demonstrate competency in all behaviors required for an Associate Degree graduate. Prerequisites: NUR 2233L; Corequisite: NUR 2241C. Special Nursing Program policies may apply to this course.

NUR 2930L  
Nursing Practice Readiness,  
1 credit hour,  
(Fall, Spring)  
This elective laboratory course assists the nursing student to prepare for the RN licensure examination (NCLEX-RN). Web-based instructional methodologies allow the student to complete the course within a self-paced time frame. Students practice test taking skills, self-evaluation and other strategies to gain confidence in sitting for the NCLEX-RN. Prerequisites: NUR 2241 or permission from nursing program director. Special Nursing Program policies may apply to this course.

NUR 2931L  
Special Topics in Associate Degree Nursing,  
5 credit hours,  
(Offered as needed)  
Students work individually to enhance nursing knowledge and skills applicable to selected topics in Associate Degree Nursing. AD nursing competencies provide the framework for learning prescriptions which include critical thinking and problem-solving. Seminars, journals, CAL, written assignments and student – instructor conferences guide students in meeting course objectives. Flexible schedule. Prerequisite: Admission to the program; permission of program director.

NUR 2811L  
Nursing Practicum,  
3 credit hours,  
(Fall, Spring)  
This course provides a time during the latter part of the last semester of the nursing program in which students begin to transition from the student role into the graduate role as Associate Degree Nurses. Students work with an experienced registered nurse preceptor to provide holistic nursing care for a limited number of clients with potentially life threatening health problems. Clinical experiences may take place in a variety of clinical settings and work schedules. Students develop team-leading skills in the clinical setting, delegating and evaluating aspects of care to other health team members. Focus is on demonstration of all professional behaviors and competencies expected of the Associate Degree Registered Nurse graduate at entry staff nurse level. Prerequisite: NUR 2241L. Special Nursing Program policies may apply to this course.

NUR 2931L  
Special Topics in Associate Degree Nursing Laboratory,  
4 credit hours,  
(Offered as needed)  
Students work individually to apply concepts, principles and standards of nursing practice pertaining to client care needs in the acute, ambulatory or long-term care setting. Simulations, CAL and other laboratory activities within a flexible schedule assist students to meet individual learning goals. Prerequisite: Admission to the program; permission of program director. Corequisite: NUR 2293C

OCE 1001C  
Introduction to Oceanography,  
4 credit hours,  
(Fall, Spring)  
A survey of the physics, chemistry, geology and biology of the oceans. Interrelationships between the atmosphere and oceans, methods of measurement and research, processes of coastal change and marine conservation. May be used to satisfy A.A. requirements in physical science for career goals other than the sciences, engineering, and pre-professional health care.

ORI 2000  
Oral Interpretation,  
3 credit hours,  
(Offered as needed)  
Oral interpretation of all genres of literature. Students read and research appropriate literature to cut, adapt, and present to the class as solo, duet, and group interpretations.

OST 1107 △  
Typing and Word Processing I,  
3 credit hours,  
(Fall, Spring)  
Integration of basic keyboarding and word processing – learning the keyboard, creating, editing, saving, and other word processing functions.

OST 1355*  
Records Management,  
3 credit hours,  
(Fall, Spring, Summer)  
Methods and systems of filing used in business offices, filing equipment, and time-and-motion skills. Filing practice sets are used.

OST 2117 △  
Typing and Word Processing II,  
3 credit hours,  
(Spring)  
Continuation of Typing and Word Processing I – develop keyboarding and document processing using a microcomputer. Prerequisite: OST 1107 or equivalent.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△Technology-Across-the-Curriculum Course.
OST 2127 *△
Typing and Word Processing III,
3 credit hours,
(Offered as needed)
Development of occupational proficiency in business letter writing, legal papers, executive forms and papers, and manuscripts through the use of a word processor. Prerequisite: OST 2117 or equivalent.

OST 2335
Business Communications,
3 credit hours,
(Fall, Spring, Summer)
Business Communications is a comprehensive coverage of language structure and particular emphasis on writing superior business letters and reports. Instruction in principle, then illustration, and practice in applying the principles. A fundamental concept of the appearance, language and style, tone and psychology of effective business letters. Prerequisites: passing score on English placement test or passing grade of “C” in ENC 0080.

OST 2401*
General Office Management,
3 credit hours,
(Fall, Spring, Summer)
Study of practices and procedures in the modern office. Emphasis on exercising judgment, handling incoming calls and callers, processing mail, word processing systems, editing and composing techniques, travel arrangements, banking procedures, employment applications and resumes. Prerequisite: OST 2117

PCB 2011C
Cell Biology,
4 credit hours,
(Fall, Spring, Summer)
A study of the cell as the structural and functional unit of living organisms. Study includes reviewing the ultrastructure and biochemical aspects of the cell. Prerequisite: One year of High School chemistry.

PEL 1121
Beginning Golf,
1 credit hour,
(Offered as needed)
Instruction in the fundamental technique and the development of personal skills through participation.

PEL 1212
Advanced Softball,
1 credit hour,
(Offered as needed)
Instruction, practice, and participation in advanced softball. The continuous development of physical skills is of major importance in this course. May be taken four times for credit. (Athletes)

PEL 1217
Advanced Baseball,
1 credit hour,
(Offered as needed)
Instruction, practice, and participation in advanced baseball. The continuous development of physical skills is of major importance in this course. May be taken four times for credit. (Athletes)

PEL 1321
Volleyball,
1 credit hour,
(Offered as needed)
Instruction and practice in the basic skills for full participation and enjoyment of the game of volleyball.

PEL 1341
Beginning Tennis,
1 credit hour,
(Offered as needed)
The history of tennis, the fundamental techniques and the development of personal skills through participation.

PEL 1441
Beginning Racquetball,
1 credit hour,
(Offered as needed)
Instruction and participation in the skills necessary for satisfactory competition in the sport of racquetball.

PEL 1562M
Advanced Basketball (Men),
1 credit hour,
(Offered as needed)
This course is a high intensity, drill oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be taken up to four times for credit.

PEL 1562W
Advanced Basketball (Women),
1 credit hour,
(Offered as needed)
This course is a high intensity, drill oriented program designed to increase the knowledge, skill ability, and endurance levels of individuals interested in basketball. Instruction includes various aspects of the game of basketball including rules and regulations, basic fundamentals, offensive set, defensive sets, and scouting procedures. Instruction will be given through classroom lectures, as well as on-the-court lectures and activities. It is strongly recommended that students participate in an exercise program outside of class hours. It may be taken up to four times for credit.

PEL 1905
Independent Study Physical Education,
1 credit hour,
(Fall, Spring, Summer)
Directed study and/or individual projects designed to meet the needs and interests of students in a specialized area of health, physical education and recreation, for which present course availability is limited. May be taken up to four times for credit.

PEL 2442
Intermediate Racquetball,
1 credit hour,
(Offered as needed)
A continuation of skills learned in beginning racquetball with emphasis on more advanced skills and techniques. Particular emphasis is placed on the strategy of the game. Prerequisites: PEL 1441 or permission of instructor.

PEL 2905
Directed Work Study - Physical Education,
1 credit hour,
(Offered as needed)
Directed experience in instructional, laboratory and/or materials assistance in a designated Physical Education area. Entry by permission of department chair only. May be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.

△Technology-Across-the-Curriculum Course.
PEM 1104
Body Conditioning,
2 credit hours,
(Fall, Spring, Summer)
An in-depth and advanced
continuation of the exercise
component of HLP 1081. Using
progressive goal setting techniques, the
course is designed to assist the student
in the development of a regular,
systemized program of exercise
into their daily life-style. Initially, the
students' health and fitness levels are
evaluated; progress of their personal
exercise prescriptions monitored, and
followed with a reevaluation at the
termination of the course. Prerequisite:
HLP 1081. May be taken up to two
times for credit.

PEM 1131A
Strength Training,
3 credit hours,
(Offered as needed)
This course is a high intensity lecture/
demonstration and flexible lab hour
weight training program designed to
increase the size, strength, and
endurance of the skeletal muscle
system. Instruction includes, but is not
limited to, weight training safety,
etiquette, history, and nutrition.
Instruction will be given in the design
of progressive resistance programs to
increase total body efficiency and to
meet the objectives of the individual
student. Students are responsible
for determining fitness for training,
and those with medical problems
which restrict personal activities
are encouraged to obtain medical
clearance before enrolling in the
course.

PEM 1171
Aerobic Dance,
1 credit hour,
(Offered as needed)
Instruction and participation in a
physical fitness program that offers
conditioning of the figure muscles and
of the cardiovascular system through
dance activities.

PEM 1173
Step Aerobics,
1 credit hour,
(Offered as needed)
Instruction and participation in
vigorous, low-impact program of
aerobic exercise, with emphasis
on correct techniques, safety,
cardiовascular and muscle conditioning.

PEM 1174
Step Aerobics II,
1 credit hour,
(Offered as needed)
Continuation of techniques and
combinations from Step Aerobics for
further cardiovascular and muscle
conditioning. Prerequisite: PEM 1173

PEM 2108
Fitness Lab,
1 credit hour,
(Offered as needed)
Instruction and participation in an
exercise program with emphasis
on muscle endurance, strength and
flexibility. May be taken up to four
times for credit. Prerequisite: HLP 1081
or approved wellness assessment by
the department chair.

PEM 2172
Aerobic Dance II,
1 credit hour,
(Offered as needed)
Advanced level of instruction and
participation in a physical fitness
program that offers conditioning
of the figure muscles and of the
cardiovascular system through dance
activities. Prerequisite: PEM 1171

PEO 2004
Theory and Practice of
Teaching a Specific Sport,
3 credit hours,
(Offered as needed)
This course is designed to provide
knowledge of the rules, teaching
progressions and strategies for
competition. The course includes
acceptable behavior and ethics for
coaches. This course will be offered for
the following specific sports: Baseball/
Softball, Basketball, Football, Golf,
Soccer, Swimming, Tennis, Track and
Field/Cross Country, Volleyball
and Wrestling.

PEO 2005
Coaching Theory,
3 credit hours,
(Offered as needed)
This course is designed to provide
knowledge of the characteristics,
principles, ethics, and theories related
to coaching sports in educational
and recreational settings. Emphasis is
placed on preparing coaches to train
athletes to achieve optimal levels
of performance.

PET 1000
Introduction to Physical Education,
3 credit hours,
(Offered as needed)
A study of the history of physical
education and sport with particular
emphasis placed on present practices
and trends.

PET 2622
Care and Prevention
of Athletic Injuries,
3 credit hours,
(Offered as needed)
Designed to provide students with
a basic knowledge of the care,
prevention, and rehabilitation of
injuries received during participation in
physical education activities.

PGY 1220C
Commercial Photography I,
4 credit hours,
(Offered as needed)
A beginning course that introduces
students to the procedures and
aesthetics of black and white
photography. Students will gain
experience using the view camera,
electronic lighting, and digital
applications of their work.

PGY 1401C
Basic Photography,
3 credit hours,
(Offered as needed)
A beginning course in black and white
photographic and darkroom technique.
Students will learn the functions
of their camera and darkroom
equipment. Students will apply their
photographic and darkroom technique.

PGY 1420C
Advanced Black and White
Photography,
3 credit hours,
(Offered as needed)
An advanced course in black and white
photography. Students will be
presented with more demanding
creative challenges and will be
exposed to a variety of advanced
procedures in the darkroom. Access to
a 35mm camera with manual mode
takes credit.

PGY 1420C
Commercial Photography II,
3 credit hours,
(Offered as needed)
A study of the history of physical
education and sport with particular
emphasis placed on present practices
and trends.
PGY 1801C  △
Digital Photography I,
4 credit hours,
(Offered as needed)
A beginning course in photography
with an emphasis on digital darkroom
production techniques. Students
will be exposed to procedures
and aesthetic concerns relating
to photography and digital image
production. Access to an appropriate
high-quality camera required.

PGY 2802C  △
Digital Photography II,
4 credit hours,
(Offered as needed)
An intermediate-level photography
course where creative idea generation
and composition in photography are
emphasized. Students research more
deply the history of photography
and apply new skills to creative
digital photographic work. Access to
an appropriate high-quality camera
required. Prerequisite: PGY 1801C

PHI 2930
Philosophy – Special Topics,
3 credit hours,
(Fall, Spring, Summer)
A defined special topics course which
is pursued under supervision of a
faculty member and recorded through
usual departmental procedures.
Designed to permit a student to
pursue non-scheduled academic and
laboratory work which may be of a
specialized nature and not available
through the college schedule.

PHY 1020
Physical Science,
4 credit hours,
(Fall, Spring, Summer)
A one term course of lectures and
demonstrations designed 1) to meet
the general education requirements
in physical science for non-science
majors and 2) for students who need
a preparatory course prior to taking
physics. The course presents the
fundamental classical and modern
concepts of physics in the area of
mechanics, energy, wave motion,
electromagnetism, and atomic
structure. Also topics in earth science
and astronomy will be discussed.

PHY 1020L
Physical Science Laboratory,
1 credit hour,
(Offered as needed)
A science laboratory course designed
to supplement principles covered
in physical science. Specifically
experiments in motion, forces,
light, electricity, thermodynamics,
Astronomy, Earth Science and
Meteorology. It is recommended that
the student have previously taken
PHY 1020 or be currently enrolled
in PHY 1020.

PHY 1049C
College Physics II,
4 credit hours,
(Spring, or offered as needed)
The second term of a two term
sequence designed for majors in
engineering, math and the physical
sciences. Physics II covers the areas
of electricity, magnetism, heat,
thermodynamics, and mechanical
waves. Calculus is used when feasible.
Prerequisite: PHY 2048C and
MAC 2312 or equivalent. MAC 2312
may be a corequisite.

PHY 2105
Modern Physics,
3 credit hours,
(Offered as needed)
This course will study topics in the
physics of the twentieth century. The
student will be introduced to basic
quantum mechanics, including Bohr
Theory of the Atom, the Schroedinger
Equation, molecular structure,
radiation, and x-ray spectra. Also,
the student will be introduced to
solid state physics and electronics,
statistical mechanics and atomic and
nuclear physics. Intended for science
and engineering students and physics
majors. Prerequisite: PHY 2048C

△Technology-Across-the-Curriculum
Course.
† Courses listed with this symbol contain
an oral communication component and
may be used to satisfy the Speaking-
Across-the-Curriculum requirement.

△ This college credit course qualifies as
having an international and/or diversity
focus for Teacher Education Programs
common prerequisites.
PLA 1003*
Introduction to Paralegalism,
3 credit hours,
(Of offered as needed)
Designed to give students a broad understanding of the nature of the paralegal professional and its responsibility.

PLA 1005*
Legal Terminology,
3 credit hours,
(Of offered as needed)
This course is designed to give an explanation of the common legal vocabulary involved in the broad, general principles of substantive and common law.

PLA 1013*
Introduction to the Legal System,
3 credit hours,
(Of offered as needed)
A practical introduction to the US legal system, types and sources of law, the courts, and related topics; a beginning course for students seeking careers in legal secerty technology or legal assisting.

PLA 1103*
Legal Research,
3 credit hours,
(Of offered as needed)
The student is systematically introduced to the essentials of legal research in such areas as searching for precedence, gathering citations and legal opinions, preparing legal briefs and conducting title searches.

PLA 1114*
Case Analysis and Legal Writing,
3 credit hours,
(Of offered as needed)
This course was designed to provide the student with necessary skills and knowledge required in case analysis and legal writing.

PLA 1203*
Introduction to Civil Law,
3 credit hours,
(Of offered as needed)
An insight into the system of dispute resolution for private parties and the government provided by the court systems of the various states and the Federal Government in a noncriminal setting.

PLA 1600*
Wills, Trusts, and Probate,
3 credit hours,
(Of offered as needed)
An introduction to estate planning, wills, and probate administration.

PLA 1800*
Introduction to Family Law,
3 credit hours,
(Of offered as needed)
An introduction to practices as they relate to family law.

PLA 2263*
Rules of Evidence,
3 credit hours,
(Of offered as needed)
The student is introduced to the rules of evidence as they apply in civil and criminal court procedures. The student is prepared to locate legal case law in reference to evidence.

PLA 2273*
TORTS: Personal Injury Litigation,
3 credit hours,
(Of offered as needed)
This course is designed to provide the student with an introductory knowledge of tort law with objectives centered on personal injury torts.

PLA 2949*
Internship – Paralegal,
3 credit hours,
(Of offered as needed)
On-the-job training in the Associate of Applied Science Option program in which the student is enrolled. The student is under the supervision, at work, of a qualified supervisor. The supervisor will rate the student's performance, knowledge, comprehension, dependability, initiative, cooperativeness, and total performance. A project paper or approved project will be submitted by the student three weeks prior to the close of the semester. May be repeated four times. Only three credits can be applied toward graduation. Prerequisites: Must have completed a minimum of 24 hours credit in the appropriate discipline.

PMT 2512*
Production Technology II,
3 credit hours,
(Of offered as needed)
Production Technology II continues to examine the new manufacturing technology that has resulted from the concepts of automation and integration in manufacturing. Some of the topics covered include: automated manufacturing, control solving processes, and other related technologies. Prerequisite: PMT 2406

POS 1041
American Government,
3 credit hours,
(Fall, Spring, Summer)
Examines government, political ideals, and institutions. Strong emphasis is placed on political thought, the origin of the American federal system, and the distribution of powers between state and national governments. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

POT 1002
History and Ideas of Political Science,
3 credit hours,
(Of offered as needed)
This course reviews classical ideas, political theory and institutions from a historical and comparative viewpoint. It examines the rise of the State, its organization, economic systems, the use of force, and persuasion. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
PPE 2001  
Personality Theorists and Their Theories,  
3 credit hours,  
(Offered as needed)  
This course examines the theorists and their theories in the field of Personality. Major theorists studied are Freud, Jung, Adler, Horney, Erickson, Rogers, Bandura, Skinner and others, combining biographical information with the theories studied. Relationships between the theories are highlighted, showing the evolution of the field.

PSC 2905  
Independent Study - Physical Science,  
1 credit hour,  
(Fall, Spring, Summer)  
Directed study and individual projects designed to meet the needs of students interested in a specialized area of the physical sciences for which present course availability is limited. Meets specific general education requirements. This course may be taken up to four times for credit.

PSC 2906  
Directed Work Study - Physical Science,  
1 credit hour,  
(Offered as needed)  
Practical experience with maintenance of lab equipment and materials. Participation in support activities and organizational routines of lab courses. Tuition may be waived. May be taken four times for credit. Departmental approval following interview is required.

PSY 2012  
Psychology,  
3 credit hours,  
(Fall, Spring, Summer)  
Surveys of the various fields of psychology. Understanding human behavior by studying the adaptation of the individual to the physical and social environment.

REA 1205  
Reading Across the Genres I,  
3 credit hours,  
(Offered as needed)  
This college-level reading course employs a variety of literary genres as the source material for building student skills in comprehension, context clues, reading speed, critical analysis, vocabulary, and other related reading skills. Students will be exposed to numerous styles and levels of reading material including novels, short stories, critical essays, drama, news reporting. Special emphasis will be placed on the mastery of advanced comprehension skills. Prerequisite: FCPT placement score of 83 or higher.

REA 1206  
Reading Across the Genres, II,  
3 credit hours,  
(Offered as needed)  
This college-level reading course employs a variety of literary genres as the source material for building student skills in comprehension, context clues, reading speed, critical analysis, vocabulary, and other related reading skills. Students will be exposed to numerous styles and levels of reading material including novels, short stories, critical essays, drama, news reporting. Special emphasis will be placed on the mastery of advanced comprehension skills. Prerequisite: FCPT placement score of 83 or higher.

REA 2105  
Advanced Reading,  
2 credit hours,  
(Fall, Spring, Summer)  
An individualized approach designed to improve reading speed, comprehension, and critical analysis skills while reading various types of material for either educational or recreational purposes. Activities and materials are individualized to meet specific needs of students as determined through diagnostic instruments. Also used as a preparation course covering (at a more critical level) the skills tested on the CLAST. Helpful for those students whose speed, comprehension, and analysis skills are weak or inadequate for proper text book analysis.

REA 2125  
CLAST Review: Reading Skills,  
1 credit hour,  
(Fall, Spring, Summer)  
A short course specifically designed to prepare students to take or retake the CLAST Reading Skills subtest. Through pre-testing, weak areas in CLAST skills are identified. These identified weak areas will be strengthened through drills, exercises, and/or other means.

REL 2300  
Introduction to World Religions,  
3 credit hours,  
(Offered as needed)  
This course will explore the principles and practices of the world’s major religious traditions. The religions will be studied in their historical and contemporary forms. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

REL 2930  
Religion – Special Topics,  
3 credit hours,  
(Fall, Spring, Summer)  
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule.

RMI 1600*  
General Insurance Lines,  
12 credit hours,  
(Offered as needed)  
This course is designed to prepare students to successfully pass the Qualification Examination for licensing in the State of Florida as a General Lines Agent.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△ Technology-Across-the-Curriculum Course.
▼ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
RMI 1640*
Life and Health Insurance I,
3 credit hours,
(Offered as needed)
This course will prepare the student for the Qualification Examination to gain a license to conduct business in Florida as a Life and Health Insurance Agent.

RTE 1000
Introduction to Radiologic Technology,
3 credit hours,
(Fall)
This course is designed to provide an overview of the history of radiography and the role and scope of practice of the practitioner in the health care delivery system. Basic concepts of patient care will be described, as well as infection control procedures and standard precautions. This course also includes an introduction to medical and radiographic terminology. Content includes a fundamental background in medical law, ethics and human diversity. The student will examine a variety of ethical issues and dilemmas found in clinical practice, as well as developing a better understanding of patients, the patient's families, and professional peers through comparison of diverse populations based on their value system, cultural and ethnic influences, communication styles, socioeconomic influences, health risks and life stages. Prerequisite: Admission to the Radiography Program.

RTE 1001
Radiologic Terminology,
1 credit hour,
(Fall)
This course is designed to provide an introduction to the origins of medical terminology using a word-building system. Abbreviations, symbols and understanding radiographic orders and interpretation of diagnostic reports are also included.

RTE 1418C
Radiographic Techniques I,
4 credit hours,
(Fall)
This course is designed to establish a knowledge base in factors that govern and influence the production and recording of radiographic images. This course introduces the student to a comprehensive study and theory of the production of x-rays and primary exposure factors of radiographic imaging. The image parameters of density, contrast, recorded detail, image distortion and blur will be studied as well as ancillary devices and equipment required to produce a quality radiographic image. Film and electronic imaging with related accessories will be emphasized. Class demonstrations and labs are used to demonstrate application of theory. Prerequisite: Admission to the Radiography Program.

RTE 1457
Radiographic Techniques II,
3 credit hours,
(Spring)
This course is a continuation of RTE 1418C Radiographic Techniques I, and is designed to introduce the student to various specific radiographic methods and techniques, such as automatic exposure control, fluoroscopy and image intensification, macroradiography, subtraction radiography, conventional tomography, digital image receptors, and digital image acquisition and manipulation. The student will also be instructed in calculating heat units, tube rating charts, anode cooling chart, and characteristic curves. Prerequisite: RTE 1418C

RTE 1503C
Radiographic Procedures I,
4 credit hours,
(Fall)
This course is designed to provide the Radiography student with instruction in radiographic examinations of the chest, abdomen, upper extremity and lower extremity. An introduction to medical and radiographic terminology, radiographic anatomy, and film critique are also included. Prerequisite: Admission to the Radiography program.

RTE 1513C
Radiographic Procedures II,
4 credit hours,
(Spring)
This course is a continuation of RTE 1503C. It is designed to provide the student with instruction in radiographic procedures and anatomy in the distal extremities, hip region, spine, ribs and sternum and acute abdominal series. Medical and radiographic terminology is emphasized. Prerequisite: RTE 1503C; Corequisites: RTE 1814L, RTE 1613, RTE 1457

RTE 1613
Radiographic Physics,
3 credit hours,
(Spring)
This course is designed to establish a knowledge base in radiographic, fluoroscopic, mobile and tomographic equipment requirements and design. Course content also includes the basics of magnetism, electricity, motors, generators, rectifying systems, x-ray tube and filament circuitry. Topics in electromagnetism such as self and mutual induction, high voltage transformation, and AC rectification will be emphasized. Prerequisite: Admission to the program, MAC 1105 or higher.

RTE 1804L
Radiography Clinical Education I,
2 credit hours,
(Fall)
This course involves the practical application of the theories covered in RTE 1503 and RTE 1000. Selected rotations provide experience in film filing, film processing and transportation of patients. Students observe, assist and perform basic radiographic procedures (chest and abdomen and extremities) under direct supervision. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required. Corequisites: RTE 1503C, RTE 1000, and RTE 1418C.

RTE 1814L
Radiography Clinical Education II,
2 credit hours,
(Spring)
This course is a continuation of Radiography Clinical Education I. This clinical training emphasizes lower and upper extremity. Medical and radiographic terminology, patient care, and communication skills are emphasized. This course meets at the affiliate hospitals. Uniforms, name badges and radiographic markers required. Prerequisite: RTE 1804L

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
RTE 1824L
Radiography Clinical Education III,
2 credit hours,
(Summer)
This course is a continuation of Radiography Clinical Education II. The student is expected: to continue to refine those skills related to objectives listed in Clinical Practicum’s I and II. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, imaging and exposure techniques, radiation protection application and film processing will also be included. It covers clinical experience in all phases of fundamental radiologic procedures and film critique. Students will rotate through ancillary departments in this course. Prerequisite: RTE 1814L.

RTE 1834L
Radiography Clinical Education IV,
2 credit hours,
(Summer)
This course is a continuation of Radiography Clinical Education III. The student is expected: to continue to refine those skills related to objectives listed in Clinical Practicum’s I, II and III. The student will gain experience and develop clinical competence in general radiographic procedures such as the cranium and specialized contrast studies. Advanced patient care skills, imaging and exposure techniques, radiation protection application and film processing will also be included. It covers clinical experience in all phases of fundamental radiologic procedures and film critique. Students will rotate through ancillary departments in this course. Prerequisite: RTE 1814L.
Corequisite: RTE 1824L.

RTE 2061
Professional Practices II,
2 credit hours,
(Spring)
This course is designed review information in preparation for the student to take the American Registry of Radiologic Technologist (ARRT) registry examination. The course will cover patient care and education, image production, equipment operation and maintenance, radiographic procedures and radiation protection. The student will also be given simulated registry examinations for practice and assessment purposes. Prerequisite: RTE 1834L, RTE 2844L.

RTE 2130
Pharmacology for Radiographers,
1 credit hour,
(Fall)
This course is designed to provide basic concepts of the biopharmaceutics, pharmacodynamics, classification, chemistry and pharmacology of radiopaque contrast media (ROCM). The practice of venipuncture techniques and the administration of contrast agents are included. The appropriate delivery of patient care during contrast procedures is emphasized. Demonstration and practice by the student of venipuncture on a mannequin arm will be included in this course. Prerequisite: Admission to the program or permission of the instructor.

RTE 2202A
Professional Practices I,
1 credit hour,
(Spring)
The course is designed to cover the past, present, and future trends in management styles within the health care industry as a whole and within the medical imaging area specifically. This course also serves to introduce the student to professional conduct concerns in the radiology field as it relates to patients, colleagues, members of the other health care professions and health care consumers. Job search skills, such as resume writing and interview skills, will also be covered. Prerequisite: RTE 1834L.
Corequisite: RTE 1824L.

RTE 2385
Radiographic Protection and Biology,
3 credit hours,
(Fall)
This course is designed to provide the student with an overview of the principles of interaction of ionizing radiation with lining systems. Ionizing effects on molecules, cells, tissues and the body as a whole are presented, along with factors affecting biological response, including: acute, chronic, stochastic and non-stochastic effects. This course is also designed to present an overview of the principles of radiation protection including the responsibilities of the radiographer for patients, personnel and the public. Radiation health and safety requirements of federal and state regulatory agencies, accreditation agencies and healthcare organizations are incorporated, as is the various methods of monitoring radiation exposure and acceptable dose limit values. Prerequisite: Admission to the Radiography Program or permission of the Instructor.

RTE 2473C
Radiographic Techniques III,
3 credit hours,
(Spring)
This course is designed to introduce the student to the quality management of medical imaging, including quality control procedures and image analysis/critique of radiographs. This course will include theory and practical applications to routine quality control check on routine, fluoroscopic, mobile, and tomographic radiography equipment. Quality control tests on ancillary equipment, such as film processor, view boxes, grids and leaded protective equipment are also included. Acceptable parameters for QC tests, as established by various regulatory agencies will also be presented. This course also teaches the student to critically analyze radiographic images for image quality and diagnostic value, as well as formulating corrective action as needed. Class demonstrations and labs are used to demonstrate application of theory. Prerequisite: RTE 1418C, RTE 1457.

RTE 2523C
Radiographic Procedures III,
3 credit hours,
(Summer)
This course is a continuation of Radiographic Procedures II, covering procedures and positioning of the patient’s anatomical structures relative to the x-ray beam and image receptor. Emphasis is on the more complex procedures involving examinations of the vascular system, hepatobiliary, bronchial tree, spinal canal, salivary glands, female reproductive organs, and synovial joints. Attention will be given to the specialized equipment, contrast media, and techniques necessary to perform these procedures. Radiographic anatomy, pathology, and critique of radiographs are included in this course. Prerequisite: RTE 1513C.
RTE 2563
Special Imaging Modalities,
3 credit hours,  
(Fall)
This course is designed to give the student a basic understanding of advanced imaging modalities equipment and procedures, such as computed tomography, magnetic resonance, sonography, nuclear medicine imaging, non-invasive, invasive and interventional vascular/cardiac catheterization. Basic machine design principles, examinations performed, as well as special patient care considerations will be emphasized. Prerequisites: RTE 1513C and RTE 1834L.

RTE 2782
Radiographic Pathology,  
3 credit hours,  
(Spring)
This course is designed to introduce theories of disease causation and the pathophysiologic disorder that compromise healthy persons. Etiology, pathophysiologic responses, clinical manifestations, and radiographic appearance of alterations in body systems will be presented. Emphasis will be placed on pathological findings on diagnostic radiographic images, in both conventional and digital formats. Prerequisite: RTE 1834L.

RTE 2844L
Radiography Clinical Education V,  
4 credit hours,  
(Spring)
This course is a continuation of RTE 1834L. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum’s I, II, III and IV. The student will gain experience and develop clinical competence in specialized imaging procedures, and mobile, surgical and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue. Prerequisite: RTE 1834L.

RTE 2854L
Radiography Clinical Education VI,  
4 credit hours,  
(Spring)
The terminal objective for this course is to prepare the student for employment as an entry level technologist. The student is expected to continue to refine those skills related to objectives listed in Clinical Practicum’s I-V and trauma radiography. Advanced imaging skills and exposure techniques will continue to be provided. Rotations through ancillary areas continue. Prerequisite: RTE 2844L.

RTE 2910
Directed Study in Radiography,  
1 credit hour,  
(Fall)
This course is designed to develop the student’s research, writing and oral presentation skills; while completing assignments, both independently and collaboratively, with minimal direction and supervision. Methods of research, appropriate style of writing, citing work, and using APA format will be covered. Prerequisites: RTE 2563, RTE 1834L; Corequisites: RTE 2573

SLS 1101
College Success,  
3 credit hours,  
(Fall, Spring, Summer)
A course designed to focus on developing practical study skills to enhance academic success. Skills taught in this course are time management, concentration/ memorization, listening, note taking, test taking, use of college resources, establishing goals, identifying learning styles, developing career choices and learning to cope with personal issues that face many college students.

SLS 1102
Freshman Seminar,  
3 credit hours,  
(Offered as needed)
A seminar designed to orient entering students to NWFSC, to familiarize them with the requirements of the College Level Academic Skills program, to assist them in assessing their academic competencies (i.e., identify strengths and weaknesses), to identify means for capitalizing on strengths and for overcoming weaknesses, and to enter and pursue academic specializations (majors) based on reasonable career choices. This course is recommended for all entering A.A. Degree seeking students in their first term.

SLS 1201
Service Learning Seminar,  
1 credit hour,  
(Offered as needed)
A seminar course designed to enhance and reinforce the value of civic responsibility and to provide students with a community service program opportunity by volunteering in community agencies in the public and private sectors.

SLS 1301
Career and Life Planning,  
1 credit hour,  
(Offered as needed)
The course is designed to help students assess their values, competencies and goals in relation to the selection of careers and life-styles for which they are best suited. On a national average, two thirds of entering college freshmen have not made a career choice concerning a career. Furthermore, extensive research shows that the student who has not made a career choice is much more likely to drop out of college. This course will help students make an informed, realistic career choice which will form the basis for their life’s work and which will also increase the probability of completing an academic program.

SLS 1340*
Professional Portfolio Building,  
1 credit hour,  
(Offered as needed)
This course is designed to increase student success through the development of a professional portfolio that will help students document and showcase specific skill area achievements, competencies and career readiness for potential employers. The course will include a systematic study and review of the student’s knowledge, skills and attitudes in their specific degree/certificate program. Students pursuing this course should have a declared program of study in A.S., A.A.S., A.T.D. or any other Certificate Program.

SLS 1350*
Job Search Techniques,  
1 credit hour,  
(Offered as needed)
A course designed to assist students assess interests, aptitudes, abilities and acquire skills necessary to conduct a job search, obtain employment, and maintain employment. This course will cover such topics as current job search techniques, skills identification, resume writing, interview skills, job retention skills and career exploration.

SLS 1501
Effective Study,  
1 credit hour,  
(Offered as needed)
Practical application of psychological principles to personal learning and study skills. Recommended for all students who feel deficient in study techniques or who otherwise wish to improve their study skills. May be taken up to four times for credit.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
**SLS 1502**
Reading Skills/Effective Study Skills,
2 credit hours,
(Offered as needed)
This course is designed to improve reading comprehension and vocabulary. Activities and materials are individualized to meet each student’s specific needs as determined by diagnostic instruments. This course is also designed to improve note-taking, test-taking, memory/recall and time management skills.

**SOW 2020**
Introduction to Social Work,
3 credit hours,
(Offered as needed)
This course is a generalist approach to the study of the social work profession focusing on the practice of social work itself, in both its social policy and direct practice perspectives. Among other topics, this ecosystems approach will examine values and ethics, social justice, cultural diversity, and the varied roles of the social worker.

**SPC 1006 †**
Essentials of Speech,
1 credit hour,
(Offered as needed)
This course can be used to satisfy missing transfer requirements and/or oral components required in certain programs. Individuals participate in the preparation and presentation of speeches.

**SPC 1600 †**
Speech,
3 credit hours,
(Fall, Spring, Summer)
Emphasis is on assisting the individual to develop his/her potential in oral communication. Individual participation in preparation and presentation of speeches reinforced by continuing group analysis and constructive criticism.

**SPC 2300 †**
Interpersonal Communication,
3 credit hours,
(Fall, Spring, Summer)
This course studies the speech communication principles involved in one-to-one interaction, comprehensive listening, conflict resolution, family and group communication and intrapersonal thought. Learning techniques may include small group participation, role play, as well as formal and informal presentations.

**SPC 2511**
Discussion and Debate,
3 credit hours,
(Offered as needed)
This course is designed to provide learning experiences in rational decision making incorporating the techniques of persuasion through organized procedures for argumentation, debate and discussion. Prerequisite: membership on forensic team.

**SPN 1030**
Spanish for Health Care I,
3 credit hours,
(Spring, Summer, Fall)
Spanish for Health Care is designed for individuals majoring or working in health-related areas. The course focuses on vocabulary needed for the workplace, and the grammar is taught as task-based practical skills. Students will conduct interview, fill out medical forms, write letters, and read medical articles and brochures.

**SPN 1032**
Spanish for Health Care II,
3 credit hours,
(Offered as needed)
Spanish for Health Care is a 3-credit course designed for individuals majoring or working in health-related areas. The course focuses on vocabulary needed for the workplace, and the grammar is taught as task-based practical skills. Students will conduct interview, fill out medical forms, write letters, and read medical articles and brochures. Does not meet State University System foreign language admissions requirement.

**SPN 1042**
Spanish for Law Enforcement I,
3 credit hours,
(Fall, Spring, Summer, Fall)
Spanish for Law Enforcement is designed for individuals majoring or working in law-related areas. The course focuses on vocabulary needed for the workplace, and the grammar is taught as task-based practical skills. Students will conduct interviews, fill out forms related to police or legal issues, write letters, and read articles and brochures pertaining to law enforcement.

**SPN 1120 †**
Spanish I,
4 credit hours,
(Fall)
Prerequisite: SPN 1042 or its equivalent.

**SPN 1121 †**
Spanish II,
4 credit hours,
(Spring)
Prerequisite: SPN 1120 or its equivalent.

**SPN 2220 †**
Spanish III,
4 credit hours,
(Fall)
Intermediate level review of grammar, readings in Spanish Literature, and development of conversational and writing skills. Prerequisite: SPN 1121 or its equivalent.

**SPN 2221 †**
Spanish IV,
4 credit hours,
(Spring)
Completion of intermediate level review of grammar, readings in Spanish literature, and development of conversational and writing skills. Prerequisite: SPN 2220 or its equivalent.

**STA 2023**
Statistics,
3 credit hours,
(Fall, Spring, Summer)
General introduction to understanding and applying statistical concepts; topics include descriptive statistics, probability, random variables, distributions, estimations, hypothesis testing, two sample inferences, correlation and simple linear regression. Non-symbolic graphing calculators are required. The TI-83 Series is recommended. Prerequisite: STA 1001 or its equivalent.

† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
STA 2122
Statistical Applications,
4 credit hours,
(Offered as needed)
This course is designed for students pursuing psychology, education, and some specialized degrees. The course is an introduction to understanding and applying statistical concepts: topics include descriptive statistics, probability distributions, one and two sample hypothesis testing, confidence interval estimation, correlation, regression, and analysis of variance. Non-symbolic graphing calculators are required. The TI-83, 84 series is recommended. Prerequisite: MAT 1033A or equivalent. Placement test may be required. NOTE: This course may be used as a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

SYG 2430
The Family and Society,
3 credit hours,
(Offered as needed)
An examination of the problems which arise out of participation in marriage, family and community situations. Designed to provide students with a basic understanding of the dynamics of family interaction, the effects upon the children, and the family’s relationship to and participation in the community.

THE 1905
Independent Study – Theatre,
1 credit hour,
(Fall, Spring, Summer)
A defined independent study which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule. Departmental approval required. Placement test may be required. NOTE: This course may be used as a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. This course may be taken up to four times for credit.

THE 2071 †
Humanities – Cinema Appreciation,
3 credit hours,
(Offered as needed)
An introduction to the origin, development, cultural aspects and analysis of cinema topics. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

THE 2080
Amateur Theatre,
3 credit hours,
(Offered as needed)
A course designed to help the theatre student to further examine the elements of performance, and to also assist those who may become active in community theatres or teachers in secondary schools who may be assigned the task to direct plays. Topic include studies in advanced acting and stage techniques, dramatic form and modes of expression as they relate to a specific performance.

THE 2100 †
Introduction to Theatre History,
3 credit hours,
(Fall, Spring, Summer)
An introduction to theatre and theatrical production. Topics span a wide range of interest – critical, historical, aesthetic and practical – intended to lay a foundation for further knowledge and skill of the theatre. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
† Courses listed with this symbol contain an oral communication component and may be used to satisfy the Speaking-Across-the-Curriculum requirement.
‡ This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.
THE 2300 †
Dramatic Literature,
3 credit hours,
(Offered as needed)
Survey of dramatic works from the
Greeks to the 20th century, with
emphasis on the plays of the 19th and
20th centuries; intensive investigation
and script analysis with reports,
lectures and discussions. This is a
Gordon Rule writing course and is part
of the college’s Writing-Across-the-
Curriculum program. If used to meet
A.A. Gordon Rule requirements for
general education, a minimum grade of
“C” is required. Prerequisite: A passing
score on the standardized placement
test measuring communication/verbal
achievement or successful completion
of ENC 0080.

THE 2820
Introduction to Creative Dramatics,
3 credit hours,
(Offered as needed)
An introduction to creative dramas
and children’s theatre. Topics span
a wide range of interests; creative
experience, children and theatre,
workshop procedure, script selection,
rehearsal and performance.

THE 2821
Introduction to Creative Dramatics II,
3 credit hours,
(Offered as needed)
Creative dramatics introduces the
many elements of theatre: dance,
voice and musical theatre. Topics span
a wide range of interests: the creative
process, workshop procedures,
rehearsal and performance. Creative
Dramatics will focus on producing a
final performance. Prerequisite:
THE 2820.

THE 2930
Theater – Special Topics,
3 credit hours,
(Fall, Spring, Summer)
A defined special topics course which
is pursued under supervision of a
faculty member and recorded through
usual departmental procedures.
Designed to permit a student to
pursue non-scheduled academic and
laboratory work which may be of a
specialized nature and not available
through the college schedule.

TPA 1210
Stagecraft,
3 credit hours,
(Offered as needed)
This course is an introduction to
the principles of stagecraft: stage
terminalogy, stage safety, instruction in
proper use of shop tools, basic theatre
construction methods, understanding
of theatrical rigging, and understanding
of general background practices.

TPA 1290
Technical Theatre Lab I,
3 credit hours,
(Offered as needed)
An introduction to technical theatre
and scene technology. Topics include
scene drawings, safety and health,
stage facility, basic crafts, two and
three-dimensional scenery, scene
painting, scene assembly, rigging,
properties, special effects and shop
organization. Prerequisite: TPA 1210.

TPA 2220
Technical Theatre Lab II,
3 credit hours,
(Offered as needed)
An introduction to stage lighting.
Topics include history of stage lighting,
fundamentals of light and illumination,
lighting control, and lighting practices.
Prerequisite: TPA 1210

TPA 2232
Introduction to Costuming Technology,
3 credit hours,
(Offered as needed)
An introduction to costume techniques
and wardrobe practices. Topics span
a wide range: costume construction
principles, problems in costumes,
costume history, construction styles,
sewing machine practices, seam
finishes, flat pattern layout and
production techniques. This course is
intended to develop practical
experiences in theatre costumes.

TPA 2276C
Entertainment Technology - Crafts,
3 credit hours,
(Offered as needed)
This course presents the practices and
principles of advanced woodworking,
welding, smithing, casting, ceramics,
plaster work, fiberglass and plastic
technology for the entertainment
industry. State of the art tool
technology, shop and field practice,
health and safety standards will
be emphasized. These crafts are
entertainment industry oriented that
will use items created in a realized
production. Prerequisite: TPA 1210.

TPA 2600
Stage Management,
3 credit hours,
(Offered as needed)
This course is an introduction to
the study and application of stage
management as it relates to the
manager portfolio, the stage manager
morgue, rules and regulations relating
to I.A.T.S.E.; rules related to contracts,
competence in stage management,
proper communication with directors,
technical directors, designers, cast
members and crews, competence in
technical discussion areas and basic
first aid.

TPP 1190
Rehearsal and Performance I,
3 credit hours,
(Offered as needed)
An ensemble theatre performance
experience open to any student who
wishes to develop rehearsal and
performance skills. Students must
participate in scheduled rehearsals and
performances. Prerequisite: Experience
in high school or a desire to learn.

TPP 1191
Rehearsal and Performance II,
3 credit hours,
(Offered as needed)
An ensemble theatre performance
experience open to any student who
wishes to develop rehearsal and
performance skills. Students must
participate in scheduled rehearsals and
performances. Prerequisites: TPP 1190

TPP 1192
Rehearsal and Performance III,
3 credit hours,
(Offered as needed)
An ensemble theatre performance
experience open to any student who
wishes to develop rehearsal and
performance skills. Students must
participate in scheduled rehearsals and
performances. Prerequisites: TPP 1191

TPP 2110
Acting I,
3 credit hours,
(Offered as needed)
Through in-class performance the
student will develop an understanding
and proficiency of those skills of
movement, voice, and expression
which are required of a
theatrical performer.

TPP 2111
Acting II,
3 credit hours,
(Offered as needed)
Through in-class performance, the
student develops an understanding
and proficiency in styles of acting
from classic through modern.
Prerequisite: TPP 2110.

† Courses listed with this symbol contain
an oral communication component and
may be used to satisfy the Speaking-
Across-the-Curriculum requirement.
TPP 2118
Acting III,
3 credit hours,
(Offered as needed)
This course is a continuation of TPP 2111, Acting II, with specialization in characterization utilizing scripted materials and scene study. Prerequisite: TPP 2111

TPP 2119
Acting IV,
3 credit hours,
(Offered as needed)
This course is a continuation of TPP 2118, Acting III, with advanced study of acting skills and script analysis with specialization in performance. Prerequisite: TPP 2118

TPP 2301
Directing I,
3 credit hours,
(Offered as needed)
A beginning course in the study, development and training in directing for the theatre. Although not a prerequisite, students are encouraged to take Acting I and II before Directing I.

TPP 2302
Directing II,
3 credit hours,
(Offered as needed)
Directing II is a continued study of the basic principles of directing for the theatre with emphasis in the continued study, development and training in directing for the theatre. Prerequisite: TPP 2301

TPP 2930
Theater Performance – Special Topics,
3 credit hours,
(Fall, Spring, Summer)
A defined special topics course which is pursued under supervision of a faculty member and recorded through usual departmental procedures. Designed to permit a student to pursue non-scheduled academic and laboratory work which may be of a specialized nature and not available through the college schedule. This course may be taken up to four times for credit.

WOH 1012 ♦
World Civilization I,
3 credit hours,
(Fall, Spring, Summer)
A study of world history from 4000 BC to 1650 AD as it relates to the development of western civilization. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

WOH 1022 ♦
World Civilization II,
3 credit hours,
(Fall, Spring, Summer)
A study of history from 1650 AD to the present as it relates to the development of the modern world. History is analyzed in terms of social, religious, philosophical, political, and economic concepts rather than chronological facts. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

WOH 2040 ♦
Twentieth Century,
3 credit hours,
(Offered as needed)
International political and historical affairs in the twentieth century through the institutions and organizations of the Western State System. Attention is on international cooperation, decision making, force, world resources, and world political geography by the selection of a specific problem. This is a Gordon Rule writing course and is part of the college’s Writing-Across-the-Curriculum program. If used to meet A.A. Gordon Rule requirements for general education, a minimum grade of “C” is required. Prerequisite: A passing score on the standardized placement test measuring communication/verbal achievement or successful completion of ENC 0080.

ZOO 1010C
Zoology,
4 credit hours,
(Fall, Spring, Summer)
An introduction to the major concepts of animal life, to include the embryology and phylogeny of major animal groups.

This college credit course qualifies as having an international and/or diversity focus for Teacher Education Programs common prerequisites.