COLLEGE CREDIT COURSES

ACG 2001 ∆
Accounting I, 3 credit hours, 45 lec. (Offered as needed)
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, deprecate, 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, 45 lec. (Offered as needed)
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, 45 lec. (Offered as needed)
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 2001 or ACG 2021.

ACG 2450 ∆
Computer Applications for Accounting, 3 credit hours, 45 lec. (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, 45 lec. (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, 45 lec. (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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA 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 and/or LIN 1670 with a grade of “C” or better.

AMH 2010
American History I, 3 credit hours, 45 lec. (Fall, Spring, Summer)
American History to 1865; 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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA 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 and/or LIN 1670 with a grade of “C” or better.

AMH 2020
American History II, 3 credit hours, 45 lec. (Fall, Spring, Summer)
American History from 1865, concentrating on industrial growth, the rise of corporate business, big labor, and government organization. Modification of basic American character and ideas as a continual historical process. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA 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 and/or LIN 1670 with a grade of “C” or better.

AMH 2061
Southern Cultural History, 3 credit hours, 45 lec. (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.

AMH 2070
Florida History, 3 credit hours, 45 lec., (Offered as needed)
A survey of Florida history from the colonial period through the 20th century.

* 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 2071
Survey of Early History of Florida, 3 credit hours, 45 lec. (Offered as needed)
A survey of Florida history from pre-Columbian populations through the Territorial Period.

AML 2010
American Literature I, 3 credit hours, 45 lec. (Offered as needed)
A course in American Literature from the Colonial period to the Civil War. This course may be used for Humanities credit. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA Gordon Rule requirements for general education, a minimum grade of “C” is also required. Prerequisite: ENC 1101.

AML 2020
American Literature II, 3 credit hours, 45 lec. (Offered as needed)
A course in American Literature from Civil War to present. This course may be used for Humanities credit. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA Gordon Rule requirements for general education, a minimum grade of “C” is also required. Prerequisite: ENC 1101.

ANT 2000#
Introduction to Anthropology, 3 credit hours, 45 lec. (Offered as needed)
Introduction to the fundamental principles, concepts, methods and theories in Anthropology. Includes a brief introduction to the subdisciplines of Anthropology: Cultural Anthropology, Physical Anthropology, Archaeology, and Linguistics. A cross-cultural perspective will be paramount in the study of Anthropology.

ANT 2100#
Introduction to Archaeology, 3 credit hours, 45 lec. (Offered as needed)
Introduction to the fundamental principles, methods, and theories in Archaeology. Includes a history of the development of Archaeology, and examination of the nature of Archaeological data and research, an introduction to archaeological data and analysis, and an examination of approaches to synthesis and interpretation. North and South American archeology is studied, but nonwestern examples are also studied to enhance an understanding of the development of the discipline in Europe and the Americas.

ANT 2159C
Florida Southeast US Archaeology, 3 credit hours, 15 lec., 60 lab. (Offered as needed)
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, 45 lec. (Offered as needed)
Introduction to special topics in anthropology and archaeology. Example: Survey and introduction to prehistoric and early historic Native American cultures in Florida and the Southeast U.S. Prerequisite: permission of instructor.

ARC 2201
Theory of Architecture, 3 credit hours, 45 lec. (Offered as needed)
An introduction to architectural theory, selected contemporary architectural theories and movements, 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.

ARC 2303A
Design 2.1, 6 credit hours, 30 lec., 120 lab. (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.

ARC 2304
Design 2.2, 6 credit hours, 30 lec., 120 lab. (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, 60 lec. (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. Prerequisite: any college credit physics course. 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, 45 lec. (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, 45 lec. (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, 45 lec. (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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA 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 and/or LIN 1670 with a grade of “C” or better.

ARH 2051† gypsum
Art History: Renaissance-18th Century Neo-Classicism, 3 credit hours, 45 lec. (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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA 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 and/or LIN 1670 with a grade of “C” or better.

ARH 2060† gypsum
Architecture History, 3 credit hours, 45 lec. (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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA 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 and/or LIN 1670 with a grade of “C” or better.

ARH 2411† gypsum
Art History: Modern Art, 3 credit hours, 45 lec., (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. Writing-Across-the-Curriculum course requiring a minimum of 4,000 words of writing. If used to meet AA 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 and/or LIN 1670 with a grade of “C” or better.

ARH 2930
Art History – Special Topics, 3 credit hours, 45 lec. (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.

† 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.
ART 1201C
Two-Dimensional Design, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
An introductory course, both theoretical and applied, dealing with the principles of organization and the elements of design in a two-dimensional format. This is a foundation course for all of the graphic arts: painting, printmaking, and the two-dimensional crafts. See page 41 regarding audit enrollment.

ART 1203C
Three-Dimensional Design, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
Basic three-dimensional form design. Introduction to the concepts by which shape, texture, value, color space, various materials and surfaces are used to explore 3-D form in art. Art core class. Prerequisite: ART 1201C. See page 41 regarding audit enrollment.

ART 1300C
Drawing I, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
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 41 regarding audit enrollment.

ART 1301C
Drawing II, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
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 41 regarding audit enrollment.

ART 1495C
Corporate Imagery, 4 credit hours, 30 lec., 60 lab. (Offered as needed)
A beginning course that introduces students to the procedures and aesthetics of developing graphic illustrations for industrial and advertising use. Students will gain experience using the view camera, electronic lighting, and digital applications of their work.

ART 1600C*
Computer Art I, 3 credit hours, 30 lec., 30 lab. (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 1701C
Sculpture I, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
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. Prerequisite: ART 1203C. See page 41 regarding audit enrollment.

ART 1702C
Sculpture II, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
Allows continued experience in more complex three-dimensional techniques; emphasis on individual projects and conceptual approach. Prerequisite: ART 1701C. See page 41 regarding audit enrollment.

ART 1750C
Pottery I, 3 credit hours, 15 lec., 60 lab. (Fall, Spring)
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. First half of course is hand building, 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 41 regarding audit enrollment.

ART 1751C
Pottery II, 3 credit hours, 15 lec., 60 lab. (Fall, Spring)
Continues hand building of Pottery I, but major emphasis is placed upon development skills utilizing the potter’s wheel. Additional glazing experimentation is also emphasized. Prerequisite: ART 1750C. See page 41 regarding audit enrollment.

ART 1905
Independent Study – Art, 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 is required. Placement test may be required.

NOTE: If this course is used to satisfy Writing-Across-the-Curriculum requirements for transfer courses to OWCC, a 4,000 word paper with a minimum grade of “C” is required. This course may be taken up to four (4) times for credit.

ART 2330C
Figure Drawing I, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
The development of technical skills and self-expression through drawing The Figure; course begins with anatomy studies, progresses to conceptualization of human form. Prerequisite: ART 1300C. See page 41 regarding audit enrollment.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△ Technology-Across-the-Curriculum Course
ART 2331C
Figure Drawing II, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
This class is a continuation of Figure Drawing I. Emphasis is on composition and self-expression in relation to the human figure. Exploration of media and content will be encouraged. Prerequisite: ART2330C. See page 41 regarding audit enrollment.

ART 2400C
Introduction to Printmaking I, 3 credit hours, 15 lec., 60 lab. (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 41 regarding audit enrollment.

ART 2401C
Printmaking II, 3 credit hours, 15 lec., 60 lab. (Offered as needed)
This class is a continuation of printmaking techniques including blockprinting, calligraphy, monotype, etching and serigraphy. Emphasis is on composition, exploration of printing methods and individual expression. Content varies according to instructor. Intro to Printmaking required. Prerequisite: ART 2400C. See page 41 regarding audit enrollment.

ART 2500C
Painting I, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
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 41 regarding audit enrollment.

ART 2501C
Painting II, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
This course is a continuation of Painting I ART2510C 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 1300C, ART 1201C, and ART 2500C. See page 41 regarding audit enrollment.

ART 2540C
Water Color I, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
An introduction to transparent watercolor techniques applied to various subject matter through demonstrations and various lab experiences. Open to all students. See page 41 regarding audit enrollment.

ART 2541C
Water Color II, 3 credit hours, 15 lec., 60 lab. (Fall, Spring, Summer)
Allows continued experience in more complex watercolor technique and subject matter. Emphasis is on composition and individual expression. Prerequisite: ART 2540C. See page 41 regarding audit enrollment.

ART 2601C
Computer Art II, 3 credit hours, 30 lec., 30 lab. (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 35 mm camera is required. Prerequisite: ART 1600C.

ART 2602C
Digital Imaging I, 4 credit hours, 30 lec., 60 lab. (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 35 mm camera is required.

ART 2603C
Digital Imaging II, 4 credit hours, 30 lec., 60 lab. (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 2834C
Gallery Practices, 3 credit hours, 30 lec., 30 lab., (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 2930
Art – Special Topics, 3 credit hours, 45 lec. (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.

ART 2955
Portfolio Development, 3 credit hours, 15 lec., 60 lab. (Offered as needed)
Development of a working portfolio through studio project aimed at fulfilling the general requirements of the average company, university, art school or advertising agency looks for in a portfolio presentation. Prerequisite: ART 1201C, ART 1300C.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
△ Technology-Across-the-Curriculum Course
AST 1002
Astronomy, 4 credit hours, 60 lec. (Fall, Spring, Summer)
A one-term course of lectures and demonstrations designed to meet the general education requirements in physical science of non-science majors, for students who need a preparatory course prior to taking physics, and for students in related scientific fields that need a scientific elective. The course includes topics in elementary physics, naked-eye astronomy, the moon, sun, solar system, stars, and galaxies. A working knowledge of arithmetic and simple algebra is required.

BCN 1230
Building Construction Materials and Processes, 3 credit hours, 45 lec. (Offered as needed)
Course designed to introduce the student to terminology, methods, procedures, materials, and processes used in the construction industry.

BCN 1272*
Blueprint Reading for Commercial Construction, 3 credit hours, 45 lec. (Offered as needed)
A course to familiarize non-drafting students with techniques of blueprint reading and the fundamentals of construction methods that make blueprint reading meaningful.

BCN 1520*
Electrical Systems in Construction, 3 credit hours, 45 lec. (Offered as needed)
A course to familiarize students with electrical terminology, practices, methods, code requirements and safety and health in construction.

BCN 1567*
Plumbing and Gas Construction Practices, 3 credit hours, 45 lec. (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, 45 lec. (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, 45 lec. (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, 45 lec. (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. Prerequisite: BCT 2600.

BCT 1706*
Construction Documentation, 3 credit hours, 45 lec. (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 2600*
Construction Estimating, 3 credit hours, 45 lec. (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 and BCN 1272.

BCT 2611*
Structural Systems in Construction, 3 credit hours, 45 lec. (Offered as needed)
A course to familiarize students with structural terminology, practices, methods, code requirements and safety and health criteria in construction.

BOT 1010C
Botany, 4 credit hours, 45 lec., 45 lab. (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.

BSC 1005 ∆
General Biology, 4 credit hours, 60 lec. (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, 30 lab. (Offered as needed)
Laboratory for general biology. Experimental methodology and technique. Not recommended for biology majors. Pre- or corequisite: BSC 1005 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
BSC 1010C
Principles of Biology I, 4 credit hours, 45 lec. 45 lab. (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 1020 and eligibility to enroll in MAC 1105.

BSC 1011C
Principles of Biology II, 4 credit hours, 45 lec., 45 lab., (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, 45 lec. (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, 45 lec., 30 lab. (Fall, Spring, Summer)
A study of the human organism to include cells, tissues, skeleton, muscular system and nervous system.

BSC 1086C
Anatomy & Physiology II, 4 credit hours, 45 lec., 30 lab. (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, 45 lec., 30 lab. (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, 15 lec. (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 (4) times for credit.

BSC 2946
Directed Work Study – Biology, 1 credit hour, 45 lab. (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 four (4) times for credit. Departmental approval following interview is required.

BUL 2241
Business Law I, 3 credit hours, 45 lec. (Fall, Spring, Summer)
Introductory course in business law with objective of presenting the law underlying business transactions. Course includes the study of the Law of Contracts, the Law of Bailments, and the law of sales based on the Uniform Commercial Code. Recommended for business degree students.

BUL 2242
Business Law II, 3 credit hours, 45 lec. (Fall, Spring, Summer)

CCJ 1000*
Introduction to Criminology, 3 credit hours, 45 lec. (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, 45 lec. (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 Course
CCJ 1192*  
Crisis Intervention, 3 credit hours, 45 lec. (Offered as needed)  
A study of the nature and causes of human stress in crisis situations involving criminal justice practitioners to include law enforcement, judicial and correctional personnel: definitions, recognition and assessment, general calming techniques, intervention: safety, abnormal behavior and suicide, role playing, causes of psychological and physiological stress agents inherent in the duties of criminal justice practitioners and countermeasures to anxiety and stress reduction.

CCJ 1500*  
Juvenile Delinquency, 3 credit hours, 45 lec. (Offered as needed)  
A study of the nature and cause of juvenile delinquency, the development of the delinquent and criminal behavior, specific criminal justice subsystem (law enforcement, judicial, corrections) problems dealing with juvenile delinquents from initial contact through final disposition and treatment. 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 1611*  
Child Abuse and Neglect, 3 credit hours, 45 lec. (Offered as needed)  
This course was designed to provide the student with an enhanced awareness of child abuse symptoms and patterns, including information and case studies on specific abuse and social problems.

CCJ 1646*  
Organized Crime, 3 credit hours, 45 lec. (Offered as needed)  
A course designed to provide the student with an overview of organized crime structures. To understand organized crime with regard to its history, origins and socio-economic impact on our society. This course provides insight into the various international and national organized crime families.

CCJ 1650*  
Introduction to Narcotics Investigation, 3 credit hours, 45 lec. (Offered as needed)  
This introductory course in narcotics investigation and identification is 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 1671*  
Women in Criminal Justice, 3 credit hours, 45 lec. (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, 45 lec. (Offered as needed)  
Exploration, development and discussion of contemporary problems in the Criminal Justice System.

CCJ 1941*  
Internship – Criminal Justice, 3 credit hours, 225 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 2 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, 45 lec. (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.

CCJ 2681*  
Introduction to Domestic Intervention, 1 credit hour, 15 lec. (Offered as needed)  
This is an introductory course dealing with domestic issues, including violence. It is designed to provide the student with an enhanced awareness of domestic intervention symptoms and techniques, including information and case studies in specific domestic and social problems.

CCJ 2682*  
Introduction to Workplace Violence Awareness, 1 credit hour, 15 lec. (Offered as needed)  
A general overview of the growing problem of violence in the workplace, what managers/supervisors need to be aware of when dealing with potential violent employees as well as what steps they can take to protect not only themselves but other employees.

CCJ 2905*  
Independent Study – Criminal Justice, 1 credit hour, 45 lab. (Fall, Spring)  
Directed study and individual projects to meet the student's interests in a specialized area of Criminal Justice for which present course availability is limited.

* This college credit course is not intended for transfer and may not be applied toward the A.A. degree.
CDA 2500* △
Network Technology, 3 credit hours, 45 lec. (Offered as needed)
Network Technology is designed to introduce students to the terminology and concepts of the network industry to include data communications and network services, OSI Model, topology, network media, connectivity devices, security, and general networking methods, including the model for network protocols. Prerequisite(s): CGS 2564 or CIS 1000 or equivalent. This is also the first of six courses in the MCSE certification program and is designed to prepare a student to take the MCSE certification exams.

CDA 2523* △
Windows Professional, 3 credit hours, 30 lec. 30 lab. (Offered as needed)
Local Area Network Administration and Management. This course is designed to provide instruction in all aspects of Network Administration. Included are physical setup, user accounts, supervisor accounts, system workload and efficiency, file and directory management, user rights, server console skills, print server and Network backup. Prerequisite: CDA 2500 or equivalent. This course prepares the student for the MCP Exam, a core requirement for Windows MCSE.

CDA 2524* △
Novell Administration I, 3 credit hours, 30 lec. 30 lab. (Offered as needed)
This course will provide students with the opportunity to develop the knowledge and skills necessary for the design and administration of a Netware System to include: network service and support various network technologies; Netware printing, as well as Netware administration, installation and configuration. Prerequisite(s): CDA 2500 with grade of “C” or higher, or equivalent.

CDA 2525* △
NT Administration II, 3 credit hours, 30 lec. 30 lab. (Offered as needed)
To provide advanced concepts of Network Administration to the students in network services, network media, connectivity equipment, and general network methods, including network protocols. Prerequisite: CDA 2523. This course prepares the student for the MCP exam, a core requirement for Windows MCSE.

CDA 2529* △
Novell Administration II, 3 credit hours, 30 lec. 30 lab. (Offered as needed)
To provide advanced concepts of Network Administration, using Novell Network Operating System software. Prerequisite: CDA 2524 with a grade of “C” or better.

CEN 2305 * △
Windows Directory Services Infrastructure, 3 credit hours, 30 lec. 30 lab. (Offered as needed)
Build system support skills in implementing and administering directory services in medium to very large Windows computing environments. Learn to use Active Directory to centrally manage users and network resources; monitor and optimize Active Directory performance; and deploy the operating system remotely with Remote Installation Services. This course prepares the student for MCP Exam, a core requirement for Windows MCSE. Prerequisites: CDA 2500, CDA 2523, CDA 2525.

CET 1600C* △
Networking Fundamentals, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
This course introduces the student to the basics of internetworking technology. This is also the first of four courses designed to prepare a student to take the Cisco Certified Network Associate Exam. The student will study 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, 30 lec., 30 lab. (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, 30 lec., 30 lab. (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, 30 lec., 30 lab. (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.

* 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 2114C*  
Digital Fundamentals I, 4 credit hours, 30 lec., 60 lab.  
(Offers as needed)
This course introduces the basics of logic and its application to electronic circuits. The student will develop the skill of changing a problem into a logic expression and then simplifying the expression. Both Boolean algebra and Karnaugh mapping are used for simplification. Subjects studied include: gates, flip-flops, counters, registers, arithmetic circuits, Multiplexers, demultiplexers, and representative digital systems.

CET 2123C*  
Microprocessor Fundamentals, 4 credit hours, 30 lec., 60 lab.  
(Offers as needed)
This course introduces the architecture, instruction set, and machine level programming of an 32-bit microprocessor. Subjects covered include: programming, signal analysis, input/output, and fault analysis. The student will use an oscilloscope to verify the presence of correct data on the bus structure. A logic analyzer will also be used for signal verification, timing, and for fault isolation. Students will also develop a program which will permit the microprocessor to control some processes outside of the computer, through use of the I/O controller. Prerequisite: CET 2114C or equivalent.

CET 2152C*  
Computer/Analysis & Troubleshooting, 4 credit hours, 30 lec., 60 lab.  
(Offers as needed)
This course will expand on the knowledge acquired in the Microprocessor Fundamentals course (CET 2123C). Topics covered will include: troubleshooting techniques, memory (RAM, DRAM, EPROM) organization and troubleshooting, input/output interfacing and troubleshooting. A more advanced level of digital system troubleshooting will be introduced including the use of logic analyzers, signature analyzers, and oscilloscope multiplexing. Prerequisite: CET 2123C or equivalent.

CET 2154C*  
Microcomputer Troubleshooting and Networking, 4 credit hours, 30 lec., 60 lab.  
(Offers as needed)
This course introduces advanced PC system troubleshooting and also requires the student to upgrade the PC system to a multimedia system by installation of the CD-ROM and soundcard. Configuration and utilization of the multimedia components will also be studied. This course will also include installation and maintenance of local area networks. Prerequisite: CET 2154C or equivalent.

CET 2171C*  
PC Hardware A+, 3 credit hours, 30 lec., 30 lab.  
(Offers 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*  
PC Hardware Servicing, 4 credit hours, 30 lec., 60 lab.  
(Offers 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 and reassemble/modify the PC hardware components.

CET 2178C*  
PC Operating Systems A+  
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 95/98, and Win NT. Major topics include file and memory management, system configuration, menu driven processing, graphical user interfaces, boot files, disk caching, virtual memory, device drivers, TSRs, and basics system errors. Prerequisite: CET 2171C or equivalent.

CET 2497*  
Windows Network Infrastructure, 3 credit hours, 30 lec. 30 lab.  
(Offers as needed)
This course is designed as an intermediate level course in the Transmission Control Protocol/Internet Protocol stack which will give the students an understanding and working knowledge of each protocol within the stack. Students completing the course will be able to configure and operate networks using this "de facto" standard network protocol suite. Prerequisite: CDA 2500. This course prepares the student for the MCP Exam, a core requirement for Windows MCSE.

CET 2615C*  
Advanced Router Theory, 3 credit hours, 30 lec., 30 lab.  
(Offers 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, VLANS, LAN Design, IGRP, Access List, and IPX. Prerequisites: CET 1600C and CET 1610C.

CET 2620C*  
Project Based Routing Design and Administration, 3 credit hours, 30 lec., 30 lab.  
(Offers as needed)
This course introduces the student to advanced router configurations. This is also the fourth of four courses designed to prepare a student to take the Cisco Certified Network Associate Exam. The student will study LAN Switching, VLANS, LAN Design, IGRP, Access List, and IPX. Prerequisites: CET 1600C, CET 1610C, CET 2615C.

* 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 2625* Δ
Cisco Network Design, 3 credit hours, 30 lec., 30 lab. (Offered as needed)
Build network design skills required for certification as a Cisco Certified Design Associate (CCDA). Learn to characterize existing networks and determine new customer requirements, develop appropriate network topologies for various environments, design naming schemes and IP/IPX addressing schemes, select the best routing and bridging protocols to optimize performance, and create design documentation. Prerequisites: CET 1600C, CET 1610, CET 2615, CET 2620

CGS 1100 Δ
Microcomputer Applications, 3 credit hours, 45 lec. (Offered as needed)
The discussion and practical applications of Windows operating systems, word processing, spreadsheets, database management, presentation software, and various communications topics.

CGS 1525* Δ
Microsoft PowerPoint, 1 credit hour, 15 lec. (Offered as needed)
An introduction to the use of Microsoft’s PowerPoint 4.0 for the creation of graphic presentations.

CGS 1550* Δ
Introduction to World Wide Web, 3 credit hours, 45 lec. (Offered as needed)
An introduction to the required hardware, software, procedures, uses and building of pages on the World Wide Web and the Internet.

CGS 1570 Δ
Computer Applications for Business, 3 credit hours, 45 lec. (Offered as needed)
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* Δ
Fundamentals of UNIX, 4 credit hours, 45 lec., 30 lab. (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 UNIX administration and certification.

CGS 2564* Δ
Introduction to Windows, 3 credit hours, 45 lec. (Fall, Spring, Summer)
An introduction to operating systems in general with emphasis on Windows.

CGS 2576* Δ
Introduction to Microsoft Word, 1 credit hour, 15 lec. (Offered as needed)
An introduction to Microsoft Word software by emphasizing the functions of the program.

CGS 2763* Δ
UNIX Administration, 3 credit hours, 45 lec. (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 management, rapid application development, and programming tools such as PERL and C++. Prerequisite: CDA 2500 and CGS 1760

CHD 1223*
Guidance for Young Children, 3 credit hours, 45 lec. (Spring and as needed)
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, 45 lec. (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, 45 lec. (Fall and as needed)
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, 30 lec., 30 lab. (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, 30 lec., 45 lab. (Offered as needed)
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.