Credit Course Descriptions

ACG 2021
Financial Accounting
3.00 Credits
Covers theory and logic that underlie accounting procedures. Course content includes an introduction to accounting concepts, procedures for reading business transactions, preparation of financial statements, accounting for merchandising concerns, corporations, bonds, and other procedures to calculate and maintain accounting information. Prerequisites: College level reading, writing and math skills are required.

ACG 2071
Managerial Accounting
3.00 Credits
Focuses on analyzing accounting records and using the results in making management decisions. College level reading, writing and math skills are required. Prerequisites: ACG 2021.

ACG 2100
Intermediate Accounting I
3.00 Credits
Covers basic accounting theory and processes, with an emphasis on balance sheets, income and related earnings statements, investments, cash flow, inventory and estimating. Prerequisite alternative: equivalent training. Prerequisites: ACG 2071.

ACG 2110
Intermediate Accounting II
3.00 Credits
Covers long term investments, tangible fixed assets, acquisitions, utilization retirement, depreciation, depletion and re-statement, intangible assets, deferred charges, insurance, special purpose funds, liabilities, accounting for bonds, pensions and leases, corporations, contributed capital at formation and retained earnings. Prerequisite: ACG 2100.

ACG 2340
Cost Accounting I
3.00 Credits
Covers basic cost concepts of goods and labor, with an emphasis on standard cost. Prerequisite alternative: Cost Accounting is taken after two courses of Financial Accounting.

ACG 2350
Cost Accounting II
3.00 Credits
Covers cost planning, control, reports and analysis, with an emphasis on the relationship between planning and control. Prerequisite: ACG 2340.

ACG 2450
Microcomputers in Accounting
3.00 Credits
Provides an overview of microcomputer accounting and its application in the business environment. The student will work through a complete accounting cycle using a full featured accounting software package in the preparation, interpretation and use of the computer information in financial decision making and problem solving. Prerequisites: ACG 2021, CGS 1000

ADV 2000
Advertising
3.00 Credits
Covers the psychology of advertising and the preparation of an advertising campaign from research to evaluation.

AEB 1949
Agriculture/Business Internship
3.00 Credits
Focuses on hands on field experiences and class work. Students will be assigned to businesses or agencies to gain practical experience in business skills in indoor and outside activities. Activities will include, but not limited to using tools, machinery and equipment, sampling, collecting and recording data. This course may be repeated six times for credit. Credit for this course does NOT apply toward an Associate in Arts degree.

AFA 1000
Introduction to Black Studies
3.00 Credits
Includes the nature and meaning of the Afro American experience from its beginning to the present, with an emphasis on visual arts, music, literature, philosophic thought and social history.

AFA 1001
Introduction to Black Culture
3.00 Credits
Examines the black person's interactions in the American culture, with emphasis on social values, attitudes, behaviors and processes that identify black Americans as an ethnic group.

AMH 1010
Early American History
3.00 Credits
Provides an overview of United States history including discovery, colonial foundations, movement for independence, and the early years of the republic through the Civil War and Reconstruction, with an emphasis on North American geography. Prerequisites: College level reading and writing skills are required.
AMH 1010H
Honors Early American History
3.00 Credits
Same as AMH 1010 with honors content. Honors Institute permission required. College level reading and writing skills are required.
Prerequisites: EAP 1620, EAP 1620L, EAP 1640 and EAP 1640L.

AMH 1020
Modern American History
3.00 Credits
Provides a study of United States development from the period of Reconstruction to the present. Topics include politics, economics, geography, social issues and reforms as related to contemporary society.
Prerequisites: College level reading and writing skills are required.

AMH 1020H
Honors Modern American History
3.00 Credits
Same as AMH 1020 with honors content. Honors Institute permission required.
Prerequisites: College level reading and writing skills are required.

AMH 1070
Florida History
3.00 Credits
Provides an overview of Florida history and government from the time of the early Indians to the present with an emphasis on how developments relate to contemporary problems, government, and society.

AMH 2540
U.S. Military History
3.00 Credits
Examines the conflicts of the nation from its beginning to the present with an emphasis on military action, political aspects and historical significance.
Prerequisites: College level reading and writing skills are required.

AML 2010
American Literature to 1885
3.00 Credits
Focuses on American writers from the Colonial, Federal and Romantic periods. Topics include major trends in Puritanism, Transcendentalism and Romanticism.
Prerequisites: College level reading and writing skills are required.

AML 2010H
Honors American Literature to 1885
3.00 Credits
Same as AML 2010 with honors content. Honors Institute permission required.
Prerequisites: College level reading and writing skills are required.

AML 2020
American Literature: 1885 to Present
3.00 Credits
Focuses on American writers since 1865. Topics include major trends in realism, naturalism and primitivism in the 19th and 20th centuries.
Prerequisites: College level reading and writing skills are required.

AML 2020H
Honors American Literature: 1885 to Present
3.00 Credits
Same as AML 2020 with honors content. Honors Institute permission required.
Prerequisites: College level reading and writing skills are required.

AML 2050
Studies in American Literature
3.00 Credits
Relates current national concerns with contemporary literature. Course content may vary with the instructor; designed for the non literature majors.
Prerequisites: College level reading and writing skills are required.

AML 2600
Introduction to African American Literature
3.00 Credits
Provides an overview of African American literature and cultural expression in the United States from the pre-discursive period to the present. Through reading, discussion, lectures, and films the historical forces that have influenced the voice of African American literature will be discussed. The politics of African American literature will also be explored.
Prerequisites: ENC 1101.

ANT 2000
Introduction Anthropology
3.00 Credits
Examines human physical evolution and the development of culture from prehistoric times through the present. Emphasizes a better understanding of our culture through a comparison of different cultures. Topics include archeology, human variations, folklore, kinship and religion.
Prerequisites: College level reading and writing skills are required.

ANT 2410
Cultural Anthropology
3.00 Credits
Presents the social science and humanities aspects of anthropology in contrast to physical anthropology. Human behavior, customs, and the values and goals of various cultures are examined.
Prerequisites: ANT 2000.
APA 1111
Basic Accounting
3.00 Credits
Covers basic accounting procedures and concepts and business terminology; designed for students with no financial training. Credit for this course does NOT apply to the Associate in Arts degree.

APA 1321
Hospitality Accounting
3.00 Credits
Focuses on methods and accounting procedures and forms unique to the hospitality industry. Emphasis is on statistical data used in control analysis. Credit for this course does NOT apply to the Associate in Arts degree.
Prerequisites: College level reading, writing and math skills required.

ARC 1211
The Building Arts
3.00 Credits
Focuses on design of the building environment, design critique and history of design. College level reading and writing skills are required.
Prerequisites: College level reading, writing skills required.

ARC 1301
Architectural Design I
4.00 Credits
Provides an introduction to architectural design, with an emphasis on the tools of architectural communications.
Prerequisite: College level reading, writing skills required.
Corequisite course: ARC 1701.

ARC 1302
Architectural Design II
4.00 Credits
Focuses on organizational systems and space, with an emphasis on freehand drawing, mechanical drawing, one point perspectives and model making. College level reading, writing and math skills are required.
Prerequisites: ARC 1301, ARC 1701.

ARC 1701
Survey of Architectural Design I
3.00 Credits
Focuses on the effects of social, political and cultural forces on architecture from the earliest times through the Baroque era, with an emphasis on design and architectural expression.
Prerequisites: College level reading and writing skills are required.
Corequisite: ARC 1301.

ARC 2201
Theory of Architecture
3.00 Credits
Focuses on the critical study of architecture with an emphasis on gaining an educated perspective of design methods. College level reading, writing and math skills are required.
Prerequisites: ARC 1301, ARC 1701.
Corequisite: ARC 2303.

ARC 2303
Architectural Design III
5.00 Credits
Focuses on diagramming, design response and decision making. College level reading, writing and math skills are required.
Prerequisites: ARC 1301, ARC 1302 and ARC 1701.
Corequisites: ARC 2301.

ARC 2304
Architectural Design IV
5.00 Credits
Focuses on how human action, structure, enclosure systems, geography and history influence architectural design. Completion of ARC 1301, ARC 1701, ARC 2201 and ARC 2303 strongly recommended. Completion of BCN 1250, TAR 1120 and TAR 1122C strongly recommended for AS.ADCT program. Enrollment in ARC 2501 strongly recommended.

ARC 2461
Materials and Methods I
3.00 Credits
Provides an introduction to materials and construction processes as they influence building and environmental design. Completion of ARC 1301 and ARC 1701 strongly recommended for the AA.ARC program. Completion of BCN 1210 and BCN 2272 strongly recommended for the AS.ADCT program. Enrollment in ARC 1302 or TAR 1120 strongly recommended. College level reading and writing skills are required.

ARC 2501
Architectural Structures I
4.00 Credits
An introduction into structural theory and analysis of planner trusses, beams and columns subjected to gravity loads. Topics include shear and moment diagrams and the determination of section properties, internal stresses, deflection and internal forces. Completion of ARC 2461 strongly recommended. Enrollment in ARC 2304 strongly recommended.

ARH 1000
Understanding Visual Art
3.00 Credits
Designed for the non art major; provides a foundation for understanding the visual arts.
Prerequisites: College level reading and writing skills are required.
ARH 1050
Art History I
3.00 Credits
Presents a historical review of Western art from the prehistoric period through the Renaissance with an examination of representative works in painting, sculpture, architecture and the minor arts. To insure student success, it is highly recommended that ENC 1101 be taken either prior to or in conjunction with this class.
Prerequisites: College level reading and writing skills are required.

ARH 1051
Art History II
3.00 Credits
Covers the major representative works of art from the Baroque through the 20th century, with an examination of painting, sculpture and architecture. To insure student success, it is highly recommended that ENC 1101 be taken either prior to or in conjunction with this class.
Prerequisites: College level reading and writing skills are required.

ART 1201C
Design Foundations
3.00 Credits
An introduction to basic visual art studio concepts. This course includes fundamentals of art making, the elements of two and three dimensional forms, modes of representation and visual art theory. Studio assignments are supplemented by class critique, discussion and hands on experimentation with various media. Emphasis is placed on creative expression and examination of visual elements.

ART 1203C
Three Dimensional Design
3.00 Credits
The visual elements: unity, balance, color, etc., used in both two and three dimensional design remain the same but their application to three dimensions changes radically because of the unique effects created by light and shadow. The student will be subjected to many lectures and projects concerning these effects. The lectures are intended to cover those elements that occur in every three dimensional discipline. Projects will be assigned individually in order to satisfy all interests. Students will then be able to develop aesthetic values in all disciplines.

ART 1300C
Drawing I
3.00 Credits
Covers the basic principles of drawing tangibles such as still life, landscape and the nude figure. The course deals with black and white media such as pencil and charcoal. The class topics include composition, line, value, volume, negative space, directional forces, perspective and proportion. Drawing I is recommended before taking upper level courses: painting, computer graphics, photography, sculpture, ceramics and printmaking.

ART 2301C
Drawing II
3.00 Credits
Covers advanced problems in color media and the exploration of a variety of media and formats. Topics include investigation of contemporary personal direction and the development of a portfolio.
Prerequisite: ART 1300C.

ART 2400C
Printmaking I
3.00 Credits
Provides an introduction to printmaking, including the basic techniques of lithography, etching and silk screen. A special fee will be charged for this course.
Prerequisite: ART 1201C.

ART 2401C
Printmaking II
3.00 Credits
Covers advanced printmaking techniques, such as multiple printing, registration and chemical reversals, with an emphasis on creativity and the development of a personal style. A special fee will be charged for this course.
Prerequisite: ART 2400C.

ART 2500C
Painting I
3.00 Credits
Covers basic painting techniques with an emphasis on classic and contemporary applications of oil and acrylic media. Topics include the use of composition, color, texture, form and value through still life, landscape, portrait, figure and old masters reproduction.
Prerequisite: ART 1300C.

ART 2501C
Painting II
3.00 Credits
Emphasizes the development of a personal and creative use of painting media through an exploration of contemporary imagery. Students will pursue personal imagery or select eight options from contemporary art movements.
Prerequisite: ART 2500C.

ART 2600C
Introduction to Digital Art
3.00 Credits
This course is intended to introduce students to basic digital imaging manipulation skills within the fine art context of creative expression. Focus on digital imaging manipulation techniques learned within a raster based environment, primarily including the fundamentals of various special effects, filters, layers and masks used to explore the creation of artistically expressive images. Students will use current computer imaging software to create original art in a variety of final output formats. Hardware and image input processes are also discussed.
Prerequisite: ART 1201C.
ART 2701C  
**Sculpture I**  
3.00 Credits  
Covers the problems and techniques of applied three dimensional design, with an emphasis on the use of materials and tools. Topics include clay, plaster, stone, wood, metal and wax. A special fee will be charged for this course.  
Prerequisite: ART 1203C.

ART 2702C  
**Sculpture II**  
3.00 Credits  
Provides continued experience with expression in three dimensional forms. This course will require students to conduct independent investigations in the design and creation of several sculpture projects. Techniques may include metal fabrication, glass carving, stone carving, woodworking, installations, wax and metal casting. A special fee will be charged for this course.  
Prerequisite: ART 2701C.  
Alternative prerequisite: Permission of instructor.

ART 2750C  
**Ceramics I**  
3.00 Credits  
Emphasizes the total ceramic process from moist clay to fired ware; an introductory course. A special fee will be charged for this course.

ART 2751C  
**Ceramics II**  
3.00 Credits  
Emphasizes the processes of casting, wheel thrown forms, hand building and glaze formulation. A special fee will be charged for this course.  
Prerequisite: ART 2750C.

ART 2752C  
**Ceramics III**  
3.00 Credits  
Emphasizes individual ceramics projects. A special fee will be charged for this course.  
Prerequisite: ART 2751C.

ART 2901  
**Directed Independent Study: Ceramics**  
3.00 Credits  
This course is designed to establish a framework for further self learning in various areas of ceramics for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2902  
**Directed Independent Study: Drawing**  
3.00 Credits  
This course is designed to establish a framework for further self learning in various areas of drawing for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2903  
**Directed Independent Study: Painting**  
3.00 Credits  
This course is designed to establish a framework for further self learning in various areas of painting for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2904  
**Directed Independent Study: Sculpture**  
3.00 Credits  
This course is designed to establish a framework for further self learning in various areas of sculpture for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2905  
**Directed Independent Study**  
3.00 Credits  
Designed to establish a framework for further self learning in various areas of Visual Arts for the advanced student. The student will shape the course to fit their needs by planning activities and preparing a contract coordinated with an art faculty member. The contract will specifically outline a specific project, or a particular set of goals and requirements that the student wishes to achieve. The contract must be satisfactorily completed and reviewed by the assigned faculty member. May be taken four times for credit.

ART 2930C  
**Selected Topics Art**  
3.00 Credits  
Selected Topics in Art is a studio course centered around topics of special interest to the class and professor. Topics or focus will be based on the needs and areas of interest, which may vary from semester to semester. Exceptions to the prerequisite will be considered by the instructor. Transfer credit is the prerogative of the receiving institution. May be taken eight times for credit.  
Prerequisites: ART 1300C and ART 1500C or ART 1201C.
ART 2950C
Professional Art Practices
3.00 Credits
This class is designed to provide students with the opportunity to learn professional art practices through hands on experience. Skill sets taught will revolve around the development of a personal artist’s portfolio, intended as an aid for college placement submissions as well as for proposals for personal exhibitions. Additional skill sets will also revolve around learning the practices of gallery operations.
Prerequisite: ART 1201C.

ASL 1140
American Sign Language I
3.00 Credits
Provides an overview of the American Sign Language and deafness in America with an emphasis on the linguistics and vocabulary of ASL and the development of conversational sign language skills. The student must take the corequisite course, ASL 1140L with the same instructor.
Prerequisites: College level reading and writing skills are required.
Corequisite: ASL 1140L.

ASL 1140L
American Sign Language I Lab
1.00 Credit
Designed to reinforce in a lab setting material presented in ASL 1140. Students will have directed practice with audiovisual materials and computer software programs, emphasizing beginning level receptive and expressive conversational practice.
Prerequisites: College level reading and writing skills are required.
Corequisites: ASL 1140.

ASL 1150
American Sign Language II
3.00 Credits
Focuses on the development of intermediate conversational American Sign Language skills with an emphasis on basic expression and reception. The student must take the corequisite course, ASL 1150L with the same instructor.
Prerequisite: ASL 1140.
Corequisite: ASL 1150L.

ASL 1150L
American Sign Language II Lab
1.00 Credits
Designed to reinforce in a lab setting material presented in ASL 1150, through the use of directed practice with audiovisual materials. Access to laboratory and computer software materials will provide opportunities for students to practice and improve receptive and expressive signing skills, reinforcing intermediate level receptive and expressive ASL conversation.
Prerequisite: ASL 1140.
Corequisite: ASL 1150.

ASL 1300C
American Sign Language Applied Linguistics
4.00 Credits
Focuses on the semantics, idiomatic usage and syntax of the American Sign Language.
Prerequisite: ASL 1150.

ASL 1430
Finger spelling
2.00 Credits
Focuses on receptive and expressive finger spelling using the American Manual Alphabet, with an emphasis on improving basic receptive proficiency as well as clarity and rhythm of expression.
Prerequisite: ASL 1140.

ASL 1510
Introduction to Deaf Culture
3.00 Credits
Provides an overview of deafness, with an emphasis on the impact of deafness on the individual and the family, social patterns of the Deaf community and historical and changing attitudes toward handicapped persons.
Prerequisites: College level reading and writing skills required.

ASL 2130
American Sign Language III
3.00 Credits
Focuses on advanced skills in American Sign Language structure and regional idiomatic use of ASL with an emphasis on non voiced conversational signed sentences. The student must take the course ASL 2130L with the same instructor.
Prerequisite: ASL 1150.
Corequisite: ASL 2130L.

ASL 2130L
American Sign Language III Lab
1.00 Credit
Designed to reinforce in a lab setting material presented in ASL 2130 through the use of directed practice with audiovisual and computer software materials. Access to laboratory materials will provide opportunities for students to practice and improve receptive and expressive signing skills, reinforcing advanced level spontaneous ASL conversation.
Prerequisite: ASL 1150.
Corequisite: ASL 2130.

ASL 2210
American Sign Language IV
3.00 Credits
Focuses on the development of advanced conversational American Sign Language skills, with an emphasis on complex grammar, metaphorical and idiomatic vocabulary and facial expressions. The student must take the course ASL 2210L with the same instructor.
Prerequisite: ASL 2130.
Corequisite: ASL 2210L.

ASL 2210L
American Sign Language IV Lab
1.00 Credit
This laboratory course is designed to reinforce, in a lab setting, material presented in ASL 2210, through the use of directed practice with audiovisual materials. Access to laboratory materials will provide opportunities for students to practice and improve receptive and expressive sign skills, reinforcing advanced level spontaneous ASL conversation. One hundred minutes of practice weekly.
Prerequisite: ASL 2130.
Corequisite: ASL 2210.
AST 1002C  
Astronomy  
3.00 Credits  
An introductory course in astronomy which presents a survey of the current knowledge of our universe as well as the contemporary, prevailing scientific viewpoint of its nature, its origins, and the evolution and development of its constituents. Topics include our own solar system, other star systems (including planetary systems), stars in general, galaxies, quasars, the universe itself, and the prospects of intelligent life elsewhere. Where appropriate, lectures will be supplemented by hands on student activities as well as demonstrations and audio visual presentations. A special fee will be charged for this course.  
Prerequisites: College level reading, writing and math skills required.

AST 1002H  
Honors Astronomy  
3.00 Credits  
Same as AST 1002C with honors content. Honors Institute permission required. A special fee will be charged for this course.  
Prerequisites: College level reading, writing and math skills required.

ATE 1001  
Introduction to Veterinary Technology  
Credit  
An introductory course for students accepted in the Veterinary Technology Program. Provides the legal and ethical standards for veterinary technicians, workplace professional conduct, resources for current issues, work environment safety, zoonotic disease risks and career opportunities.  
Prerequisites: College level reading, writing and math skills required.

ATE 1110  
Animal Anatomy  
3.00 Credits  
This course covers the basic gross and microscopic anatomy of domestic animals, especially the canine and feline with emphasis on locating and identifying anatomical regions and landmarks and applications. The student will be introduced to the descriptive and topographical terms needed to communicate to the professional staff.  
Prerequisites: Admission to the Veterinary Technology Program. College level reading, writing and math skills required.  
Corequisites: ATE 1110L, ATE 1211.

ATE 1110L  
Animal Anatomy Laboratory  
1.00 Credit  
This course is designed to acquaint the student with the fundamental techniques involved in anatomic dissection as well as necropsy procedures. This laboratory will correlate with ATE 1110 lecture material and will help visualize concepts.  
Prerequisites: College level reading, writing and math skills required.  
Corequisites: ATE 1110, ATE 1211.

ATE 1211  
Animal Physiology  
3.00 Credits  
This course is designed to acquaint the student with physiology of domestic animals. Emphasis is placed on the functions of organ systems relevant to veterinary technology. Aspects of physiology relating to the pathogenesis of certain diseases will be discussed.  
Prerequisite: Admission to the Veterinary Technology Program.  
Corequisites: ATE 1110, ATE 1110L.

ATE 1311L  
Veterinary Office Procedure Lab  
1.00 Credit  
Designed to acquaint the student with office procedures, client education, mathematics and veterinary computer applications.  
Prerequisite: Admission to the Veterinary Technology Program.

ATE 1630  
Pharmacology for Vet Techs  
1.00 Credit  
Designed to explain the drug classifications pertaining to animal use, methods of calculating appropriate drug dosage, routes of administration and evaluation of drug efficacy.  
Prerequisites: ATE 1944, ATE 2639 and ATE 2639L with a minimum grade C.

ATE 1650L  
Veterinary Clinical Practice Lab I  
1.00 Credit  
Acquaints the student with basic laboratory and nursing skills, including restraint, history taking, exam room techniques, administration of medication, basic parasitology, and clinical pathology procedures.  
Prerequisite: Admission to the Veterinary Technology Program.

ATE 1741  
Veterinary Medical Terminology  
1.00 Credit  
Introduces the student to medical terms, laymen's terms and abbreviations utilized by veterinarians and their clients. It includes canine and feline breed identification.  
Prerequisites: College level reading, writing and math skills required.

ATE 1943  
Veterinary Work Experience I  
1.00 Credit  
A course consisting of supervised clinical experience in a workplace approved and monitored by the instructor. Skills emphasized in curriculum up to this point will be reinforced.  
Prerequisites: ATE 1650L, ATE 1311L, ATE 1110, ATE 1110L, ATE 1211 and ATE 1741 with a minimum grade of C.

ATE 1944  
Veterinary Work Experience II  
1.00 Credit  
A course consisting of supervised clinical experience in a workplace approved and monitored by the instructor. Skills emphasized in curriculum up to this point will be reinforced.  
Prerequisites: ATE 1943, ATE 2652L, ATE 2638, ATE 2638L, ATE 2636, ATE 2661 and ATE 2671L with minimum grade of C.
ATE 2020
Contemporary Clinical Issues
3.00 Credits
Focuses on the contemporary and anticipated developments in veterinary medicine, surgery, dentistry and behavior. Students will become familiar with related medical terms, protocols and needed materials and supplies.
Prerequisites: ATE 1630, ATE 2050, ATE 2611, ATE 2631, ATE 2651L, ATE 2722, and ATE 2945 with a minimum grade C.

ATE 2050
Small Animal Breeds & Behavior
1.00 Credit
This course introduces the student to normal canine and feline behavior, obedience training, and feline training. Discussion topics include normal canine and feline behavior and cause of behavior problems in dogs and cats. The student will train a dog and cat, will discuss or apply corrections for common behavioral problems, and will learn about the different canine and feline breeds.
Prerequisites: ATE 1944, ATE 2639, ATE 2639L with a minimum grade of C.

ATE 2501
Veterinary Professional/Development Ethics Seminar
1.00 Credit
This course introduces the student to the laws and agencies governing the care, use and movement of animals. Veterinary ethics, resume writing and employment skills, and current trends in veterinary practice will also be described.
Prerequisite: College level reading, writing, and math skills are required.

ATE 2611
Animal Medicine I
3.00 Credits
Designed to acquaint the student with concepts in microbiology, virology and immunology and vaccinology.
Prerequisites: ATE 1944, ATE 2639 and ATE 2639L with a minimum grade of C.

ATE 2612
Small Animal Nursing II
3.00 Credits
A study of the basic concepts of nutrition, obstetric, and pediatric care, as well as the important aspects regarding zoonotic diseases, public health and animal behavior. The student will also be introduced to alternative medicine, including holistic concepts, homeopathic, acupuncture, chiropractic and other emerging specialties.
Prerequisites: ATE 1630, ATE 2050, ATE 2611, ATE 2631, ATE 2651L, ATE 2722 and ATE 2945 with a minimum grade of C.

ATE 2614
Animal Medicine II
3.00 Credits
Designed to acquaint the student with concepts in causes and nature of disease, toxicology, and an overview of pathologies of major systems.
Prerequisites: ATE 1630, ATE 2050, ATE 2611, ATE 2631, ATE 2651L, ATE 2722, and ATE 2945 with a minimum grade of C.

ATE 2631
Small Animal Nursing I
3.00 Credits
The student will master the technical skills of medicating animals, anesthetizing animals and taking and processing radiographs. This course also covers general care, including grooming and bathing, feeding and watering, nail trimming, ear cleaning, expressing anal sacs, and determining vital signs.
Prerequisites: ATE 1944, ATE 2639 and ATE 2639L with a minimum grade of C.

ATE 2636
Large Animal Clinical & Nursing Skills
2.00 Credits
Designed to acquaint the student with the fundamentals of large animal breed identifications, restraint, reproductive and lactation physiology, nutrition and the technician’s role in veterinary care.
Prerequisites: ATE 1110, ATE 1110L, ATE 1211, ATE 1311L, ATE 1650L and ATE 1741 with a minimum grade of C.

ATE 2638
Animal Clinical Pathology I
3.00 Credits
This course is designed to introduce the veterinary technician to hematology the hematopoietic and serology. Emphasis is placed on normal blood smears and common changes seen during disease stages of the domestic animals. Blood chemistry, complete blood count analyzers, and collection systems are discussed.
Prerequisites: ATE 1110, ATE 1110L, ATE 1211, ATE 1311L, ATE 1650L and ATE 1741, with a minimum grade of C.
Corequisite: ATE 2638L.

ATE 2638L
Animal Clinical Pathology Lab I
2.00 Credits
This course is designed to acquaint the student with clinical laboratory procedures covered in ATE 2638. Areas of emphasis include hematology, complete blood counts and coagulation as well as general laboratory etiquette.
Prerequisites: ATE 1110, ATE 1110L, ATE 1211, ATE 1311L, ATE 1650L and ATE 1741, with a minimum grade of C.
Corequisite: ATE 2638.

ATE 2639
Animal Clinical Pathology II
3.00 Credits
This course covers selected topics in clinical parasitology, fecal analysis, urinanalysis and cytology.
Prerequisites: ATE 1943, ATE 2636, ATE 2638, ATE 2638L, ATE 2652L, ATE 2661 and ATE 2671L, with a minimum grade of C.
Corequisite: ATE 2639L.

ATE 2639L
Animal Clinical Pathology Lab II
2.00 Credits
This course is designed to acquaint the student with clinical laboratory procedures covered in ATE 2639. Areas of emphasis include parasitology, urine and fecal analysis, cytology bacterial and fungal cultures.
Prerequisites: ATE 1943, ATE 2636, ATE 2638, ATE 2638L, ATE 2652L, ATE 2661 and ATE 2671L with a minimum grade of C.
Corequisite: ATE 2639.
ATE 2651L
Small Animal Nursing Lab
2.00 Credits
This course is designed to acquaint the student with exam room and restraining techniques, anesthesia and surgical protocols and diagnostic imaging procedures used in veterinary hospitals.
Prerequisites: take ATE 1944, ATE 2639 ATE 2639L with a minimum grade of C.

ATE 2652L
Veterinary Clinical Practice Lab II
Credit
Acquaints the student with the basic knowledge of skills used in veterinary practice for anesthesia induction and monitoring, patient preparation for surgery, surgical assistance and radiographic technique.
Prerequisites: ATE 1110, ATE 1110L, ATE 1211, ATE 1311L and ATE 1650L, and ATE 1741 with a minimum grade of C.

ATE 2661
Large Animal Diseases
1.00 Credits
This course is designed to acquaint the student with the fundamentals of preventive medicine and common diseases present in large animals.
Prerequisites: ATE 1110, ATE 1110L, ATE 1211, ATE 1311L, ATE 1650L and ATE 1741 with a minimum grade of C.

ATE 2671L
Medicine of Laboratory Animals
2.00 Credits
A study of the technical and clinical aspects of laboratory animal care, including restraint and handling, common diseases, and nutrition.
Prerequisites: ATE 1110, ATE 1110L, ATE 1211, ATE 1311L, ATE 1650L and ATE 1741 with a minimum grade of C.

ATE 2710
Animal Emergency Medicine
2.00 Credits
This course is designed to acquaint the student with fundamentals of emergency veterinary medicine, including veterinary first aid, toxicology and specialized medical techniques and procedures.
Prerequisites: ATE 1630, ATE 2050, ATE 2722, ATE 2611, ATE 2631, ATE 2651L and ATE 2945 with a minimum grade of C.

ATE 2722
Avian & Exotic Pet Medicine
2.00 Credits
Describes exotic animal and avian medical care. Veterinary technicians will understand the idiosyncrasies of these species in order to become proficient and useful to the exotic and avian practitioner.
Prerequisites: ATE 1944, ATE 2639 and ATE 2639L with a minimum grade of C.

ATE 2945
Veterinary Work Experience III
1.00 Credit
A course consisting of supervised clinical experiences in a workplace approved and monitored by the instructor. Skills emphasized in curriculum up to this point will be reinforced.
Prerequisites: ATE 1944, ATE 2639, and ATE 2639L with a minimum grade of C.

ATE 2946
Veterinary Work Experience IV
1.00 Credit
A course consisting of supervised clinical experiences in a workplace approved and monitored by the instructor. Skills emphasized in curriculum up to this point will be reinforced.
Prerequisites: ATE 1630, ATE 2050, ATE 2611, ATE 2631, ATE 2651L, ATE 2722 and ATE 2945 with a minimum grade of C.

BCN 1210
Construction Materials & Processes
3.00 Credits
Provides a basic understanding of materials and manufacturing processes consistent with sound engineering principles; focuses on ferrous and non ferrous metals, stainless steel, molten metal, heat treatment, powder metallurgy, inspection and quality control, machine tool elements, numerical control, turning, boring and milling machines. Topics include gears and thread cutting, methods of processing plastics, welding, soldering, braising and the process of classifying woods.

BCN 1250
Introduction Graphic Technology
3.00 Credits
Introduces the principles of industrial graphics. Topics include the care and use of drawing instruments, lettering, multi view projections and sketching techniques. Designed for the student without drawing experience.

BCN 2272
Blueprint Reading
3.00 Credits
Includes the principles of interpreting blueprints and specifications common to the building trades. Focuses on reading details for grades, foundations, floor plans, elevations, walls, doors, windows and roofs of residential, light and heavy construction.

BCN 2291C
Construction Materials Testing
3.00 Credits
Studies the techniques of testing construction materials to determine their physical properties, with an emphasis on soils, Portland cement, concrete and asphalt. A special fee will be charged for this course.
Prerequisite: BCN 1210.

BCN 2405
Structural Design
3.00 Credits
Structural Design is an introduction to the physical science of applied mechanics. Emphasis is placed on sizing wood and steel members for light construction.
Prerequisites: BCN 1210, EVS 2893C, MGF 1106, PHY 1025, and PHY 1025L.

BCN 2942
Construction Internship
3.00 Credits
Student works a minimum of 140 hours during one term in a pre approved industrial job; also attends a weekly seminar.
BCT 1720
Construction Methods
3.00 Credits
The construction methods course is an introduction to systems, methods, equipment, and construction practices available and commonly used to perform the major elements of a light construction project. A typical project is followed from contract to occupancy in classroom discussion and field trips. Numerous field trips to current construction sites are taken during the term. Emphasis is placed on sequence of activities and scheduling the project. Scheduling the construction project is an integral part of this course. Students will complete a bar graph and Gant chart using the critical method of scheduling.
Prerequisite: BCN 1210.

BCT 1760
Building Codes and Safety Regulations
3.00 Credits
Emphasis is on the Florida Building Code and to understand other applicable regulations in order to organize and manage a construction project with regulations and regulatory agencies in mind. Contract documents are created to reflect these regulations.
Prerequisite: BCN 1210.

BCT 2705
Construction Management
3.00 Credits
Construction management is an introduction to basic legal skills and practices needed to manage a construction office. Emphasis is on the business organization, Florida construction licensing law, the general and special conditions of construction contracts and subcontracts, the Florida mechanics lien law, workers compensation and liability insurance coverage and state and federal tax reporting requirements.
Prerequisite: ENC 1101.

BCT 2730
Construction Supervision
3.00 Credits
This course examines techniques of supervision and management of human and other resources necessary to complete a construction project. Construction industry organization and management structure in relation to scheduling, material procurement, and equipment management. Human resource topics include labor and human relations, safety, morale, motivation. Leadership, delegation of authority in management of skilled and unskilled labor, technical, professional and administrative personnel topics are also covered.
Prerequisite: BCT 2705.

BCT 2743
Construction Law
3.00 Credits
This course is intended to provide a general overview of the legal issues and the applicable laws relating to the construction industry in the State of Florida. Students will be introduced to the basic legal concepts and their applications in order to succeed in the construction business. Students will build knowledge and interpretation skills through the identification and discussion of basic legal issues, and will gain a clear understanding of the function and purpose of these skills in the construction industry.
Prerequisites: BCT 2750, BCT 1760.

BCT 2750
Building Construction Contracts and Finance
3.00 Credits
A study of building construction, contracting and finance and related contract requirements. Topics include construction loans, permanent building mortgages, construction bids and contracts, penalty and incentive provisions, progress payments and retention, escalation provisions, cost extras, performance and bid bonds, company profits, cash flow and business loans.
Prerequisite: BCT 1760.

BCT 2770C
Construction Estimating
3.00 Credits
Deals with the computation of building costs for typical construction projects and the computation of labor and materials from take off to the final estimates. Completion of BCN 1210 and ARC 2461 strongly recommended. Enrollment in ARC 2304 and ARC 2501 strongly recommended.

BOT 1000
Plant Physiology and Growth
3.00 Credits
Focuses on the processes which occur in plants. Topics include photosynthesis, respiration, mineral nutrition, transpiration and plant growth regulations.

BRC 1301
Introduction to Financial Institutions
3.00 Credits
An introduction to the U.S. banking system, the role of banks, credit unions and thrifts as financial service providers. Banking principles, various products/services, and the laws and regulatory agencies governing the different types of financial institutions will be discussed.

BRC 1321
Principles of Credit and Collections
3.00 Credits
This course is designed for people planning a career in credit union management and is approved by the credit union national association for certification as a credit union executive. Topics include: the nature and role of credit decision; decision making and salesmanship in consumer credit; numerical scoring systems, collections policies, practices and systems; business and government credit functions; and control of credit operations.

BSC 1005C
Biological Foundations I
3.00 Credits
Designated for non science majors; topics include the introduction of general biological concepts, genetics, and a brief survey of living organisms combined and integrated with a hands on laboratory component. A special fee will be charged for this course.
Prerequisites: College level reading, writing and math skills are required.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credits</th>
<th>Prerequisites</th>
<th>Corequisites</th>
</tr>
</thead>
<tbody>
<tr>
<td>BSC 1010</td>
<td>Biological Science I</td>
<td>3.00</td>
<td>Intended for science majors. Introduces students to the science of biology. Topics include aspects of biochemistry, cytology, cellular metabolism, and genetics. College level reading, writing and math skills are required.</td>
<td>Prerequisite: CHM 1045. Corequisite: BSC 1010L.</td>
</tr>
<tr>
<td>BSC 1010L</td>
<td>Biological Science I Lab</td>
<td>1.00</td>
<td>A special fee will be charged for this course. College level reading, writing and math skills are required.</td>
<td>Prerequisite: College math skills required. Corequisite: BSC 1010.</td>
</tr>
<tr>
<td>BSC 1011</td>
<td>Biological Science II</td>
<td>3.00</td>
<td>Intended for science majors. Emphasizes a phylogenetic survey of the five kingdoms of living organisms, together with an introduction to ecology and behavior.</td>
<td>Prerequisites: BSC 1010, BSC 1010L. Corequisite: BSC 1011L.</td>
</tr>
<tr>
<td>BSC 1011H</td>
<td>Honors Biological Science II</td>
<td>3.00</td>
<td>Same as BSC 1011 with honors content. Honors Institute permission required.</td>
<td>Prerequisites: BSC 1010, BSC 1010L. Corequisite: BSC 1011L.</td>
</tr>
<tr>
<td>BSC 1011L</td>
<td>Biological Science II Lab</td>
<td>1.00</td>
<td>College level reading skills required. A special fee will be charged for this course.</td>
<td>Prerequisite: BSC 1010L. Corequisite: BSC 1011.</td>
</tr>
<tr>
<td>BSC 1025</td>
<td>Nutrition &amp; Drugs</td>
<td>3.00</td>
<td>Primarily intended for non science majors. Focuses on basic nutrients and their roles in human nutrition. Topics include the problems and possible solutions of deficiency diseases, world food shortages, obesity, commonly used drugs, drug effects on the body and drug addiction.</td>
<td>Prerequisites: College level reading, writing and math skills required. Corequisite: BSC 1025L.</td>
</tr>
<tr>
<td>BSC 1025L</td>
<td>Nutrition &amp; Drugs Lab</td>
<td>1.00</td>
<td>A special fee will be charged for this course.</td>
<td>Prerequisites: College level reading and writing skills required. Corequisite: BSC 1025.</td>
</tr>
<tr>
<td>BSC 1085</td>
<td>Human Anatomy and Physiology I</td>
<td>3.00</td>
<td>Intended for Allied Health and science majors. Encompasses both anatomy and physiology; includes cell structure and function. Focuses on the study of human systems, particularly the integumentary, skeletal, muscular and nervous systems.</td>
<td>Prerequisites: College level reading, writing and math skills required. Corequisite: BSC 1085L.</td>
</tr>
<tr>
<td>BSC 1085L</td>
<td>Human Anatomy and Physiology Lab</td>
<td>1.00</td>
<td>A special fee will be charged for this course.</td>
<td>Prerequisites: College level reading and writing and math skills are required. Corequisite: BSC 1085.</td>
</tr>
<tr>
<td>BSC 1086</td>
<td>Human Anatomy and Physiology II</td>
<td>3.00</td>
<td>Focuses on cardiovascular, respiratory, digestive, endocrine, immune, lymphatic, urinary and reproductive systems.</td>
<td>Prerequisite: BSC 1085. Corequisite: BSC 1086L.</td>
</tr>
<tr>
<td>BSC 1086L</td>
<td>Human Anatomy and Physiology II Lab</td>
<td>1.00</td>
<td>College level reading and writing skills are required. A special fee will be charged for this course.</td>
<td>Prerequisite: BSC 1085L. Corequisite: BSC 1086.</td>
</tr>
<tr>
<td>BSC 1092C</td>
<td>Human Biology</td>
<td>3.00</td>
<td>Intended for those not majoring in the biological sciences or allied health fields. Provides introductory material in human anatomy and physiology to focus on understanding the body organization and the interrelations of body organs systems combined and integrated with a hands on laboratory component. A special fee will be charged for this course.</td>
<td>Prerequisites: College level reading, writing and math skills required.</td>
</tr>
<tr>
<td>BSC 1420C</td>
<td>Introduction to Biotechnology</td>
<td>3.00</td>
<td>This course provides an introduction to the basic foundations of biotechnology, and the techniques used in research and industry environments. This course will integrate historical background, current concepts, and techniques in DNA and RNA technology and their role in cell and genetic disorders. Students will demonstrate knowledge of the scientific method, lab safety, and best laboratory practices. Students will demonstrate competency with various instrumentation, including pH meters, centrifuge, spectrophotometer, chromatography, and gel electrophoresis.</td>
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</tr>
</tbody>
</table>
BUL 2241
Business Law I
3.00 Credits
Covers the main concepts of legal institutions, the legal environment, business ethics, public and private business law, contracts, business regulations the UCC (Uniform Commercial Code) and related laws.
Prerequisite: College level reading and writing skills required.

BUL 2242
Business Law II
3.00 Credits
Covers commercial paper, agency, partnerships, corporations, secured transactions, bankruptcy, securities regulations, real and personal property, trusts, wills and associated legal problems.
Prerequisite: BUL 2241.

CAP 1023
Introduction to Game Development
3.00 Credits
Survey of the various aspects of game development including: game programming and scripting, design, modeling and rendering. Students will work on projects involving design and storytelling, computer programming and scripting, as well as multimedia presentations and artwork. Aspects of the gaming industry will be covered to include human computer interaction, mathematical and physics consideration, and the business of game production and distribution.
Prerequisite: CGS 1000.

CAP 2042
Game Design and Development
3.00 Credits
In this hands on course the student will practice creating 2D and 3D graphics using game and simulation software. The student will perform polygonal as well as nurbs modeling to create programmable 3D objects able to be rendered for simulation software and computer games, projects include creating objects ad performing subdivision modeling to include splitting and extruding surfaces. Also, students will practice various animation techniques using software rendering as well as programming code.
Prerequisite: CAP 1023.

CAP 2043
Advanced Game Design and Development
3.00 Credits
In this hands on course the student will continue to create animations for computer games and simulation software. The student will perform projects that include using ray tracing rendering, animating motion along a path, programming animation, rendering scenes and applying lighting and shading. Other projects allow the student to apply movement along nurbs and splines, as well as applying dynamics with particles and emitters. Rendering objects for use in computer game engines will also be covered.
Prerequisite: CAP 2042.

CAP 2816
Database Management II
1.00 Credit
Focuses on advanced data file techniques.
Prerequisite: CGS 1540.

CAP 2840
Personal Financial Management
1.00 Credit
Focuses on using a computer to manage personal finances, with an emphasis on determining a budget, entering checkbook information, preparing a personal net worth statement and keeping a record of monthly expenses.

CAP 2939
Digital Media/Multimedia Technology Capstone
3.00 Credits
The capstone course is designed for the student to demonstrate his/her knowledge and skills applicable to the degree core competencies and outcomes. The course is designed as a project based experience. The student's project requirements will be designed in concert with his/her area of curriculum emphasis.

CCJ 1010
Introduction to Criminal Justice
3.00 Credits
Covers the historical and philosophical backgrounds of criminal justice agencies and examines the development of the courts, correctional agencies, and law enforcement processes. Topics include the Supreme Court, the 14th Amendment, individual rights, and requirements and opportunities in the law enforcement and correctional fields.

CCJ 1935
Seminar/Criminal Justice Issues
3.00 Credits
Focuses on selected topics and issues not usually covered in other courses.

CCJ 2013
Introduction to Victimology
3.00 Credits
This course is about victims of crime. It provides an introductory level review of the many facets of criminal victimization and the efforts to assist crime victims. The course covers a wide range of topics including trends and interpretations of victimization research, laws, programs, and services, the emotional and social impact of crime, victim rights and restitution and the extent of participation by victims in the criminal justice process.

CCJ 2191
Introduction to Human Behavior in Criminal Justice
3.00 Credits
This course provides a study of human nature and the peculiarities of human behavior and how it relates to crime and delinquency with emphasis on how this behavior relates to the duties and responsibilities of the criminal justice practitioner. The course will emphasize abnormal behavior and how criminal justice practitioners should react with primary emphasis on the behavioral aspects of people in crisis situations and how criminal justice practitioners should respond. The course will deal with issues of police crisis intervention and crisis management.