

COURSE DESCRIPTIONS

ACG-2021 **Financial Accounting**

3 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 Credits

Focuses on analyzing accounting records and using the results in making management decisions.

Prerequisite: ACG-2021

ACG-2100 **Intermediate Accounting I**

3 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: ACG-2071 or equivalent training

ACG-2110 **Intermediate Accounting II**

3 Credits

Covers long-term investments, tangible fixed assets, acquisitions, utilization retirement, depreciation, depletion and restatement, 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 Credits

Covers basic cost concepts of goods and labor, with an emphasis on standard cost.

Prerequisite alternative: equivalent courses.

ACG-2350 **Cost Accounting II**

3 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 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 and CGS-1000

ADV-2000 **Advertising**

3 Credits

Covers the psychology of advertising and the preparation of an advertising campaign from research to evaluation.

AEB-1949 **Agriculture/Business Internship**

3 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 **Intro to Black Studies**

3 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 **Intro to Black Culture**

3 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 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 Credits

Same as AMH 1010 with honors content. Honors Institute permission required.

Prerequisites: College level reading and writing skills are required.

AMH-1020 **Modern American History**

3 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 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 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
United States Military History

3 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 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 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 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 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 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
Intro to African-American Literature

3 Credits

Provides an overview of African-American literature and cultural expression in the United States from the prediscursive 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 Black-American literature will also be explored.

Prerequisite: ENC-1101

ANT-2000
Introduction to Anthropology

3 Credits

Examines human physical evolution and the development of culture from pre-historic 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 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.

Prerequisite: ANT-2000

APA-1111
Basic Accounting

3 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 Credits

Focuses on methods and accounting procedures and forms unique to the hospitality industry. Emphasis is on statistical data used in control analysis.

Prerequisites: College level reading, writing and math skills are required.

Credit for this course does NOT apply to the Associate in Arts degree.

ARC-1211
The Building Arts

3 Credits

Focuses on design of the building environment, design critique and history of design.

Prerequisites: College level reading and writing skills are required.

ARC-1301
Architectural Design I

4 Credits

Provides an introduction to architectural design, with an emphasis on the tools of architectural communications.

Prerequisites: College level reading and writing skills are required.

Corequisite: ARC-1701

ARC-1302
Architectural Design II

4 Credits

Focuses on organizational systems and space, with an emphasis on freehand drawing, mechanical drawing, one-point perspectives and model making.

Prerequisites: ARC-1301, ARC-1701. College level reading, writing and math skills are required.

ARC-1701
Survey of Architectural Design I

3 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.

Prerequisite: ARC-1301. College level reading and writing skills are required.

ARC-2201
Theory of Architecture

3 Credits

Focuses on the critical study of architecture with an emphasis on gaining an educated perspective of design methods.

Prerequisite: ARC-2303. College level reading, writing and math skills are required.

ARC-2303
Architectural Design III

5 Credits

Focuses on diagramming, design response and decision making.
Prerequisite: ARC-2201. College level reading, writing and math skills are required.

ARC-2304
Architectural Design IV

5 Credits

Focuses on how human action, structure, enclosure systems, geography and history influence architectural design. Completion of ARC 1301, ARC 1702, 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. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

ARC-2461
Materials and Methods I

3 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.

Prerequisites: College level reading and writing skills are required.

ARC-2501
Architectural Structures I

4 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
Art Appreciation

3 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 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.

ARH-1051
Art History II

3 Credits

Covers the major representative works of art from the baroque through the 20th century, with an examination of painting, sculpture and architecture.

ART-1201C
Design Foundations

3 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 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 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-1301C
Drawing II

3 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.

ART-1400C
Printmaking I

3 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.

ART-1401C
Printmaking II

3 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-1400C.

ART-1402C
Printmaking III

3 Credits

Emphasizes individual style in printmaking and the development of a personal exhibit.

A special fee will be charge for this course.

Prerequisite: ART-1401C

ART-1500C
Painting I

3 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.

ART-1501C
Painting II

3 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-1500C

ART-1530C
Painting III

3 Credits

Emphasizes the resolution of a personal style, and the exploration of non-objective images.

Prerequisite: ART-1520C

ART-1600C
Introduction to Computer Images

3 Credits

Covers the use of computers in visual, fine and commercial art, with an emphasis on hand-on experience.

ART-2701C
Sculpture I

3 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.

ART-2702C
Sculpture II

3 Credits

Provides continued experience with expression in three dimensional form. This course will require students to conduct independent investigations in the design and creation of several sculpture projects. Techniques may include metal fabrication, glass casting, stone carving, woodworking, installations, wax and metal casting.

A special fee will be charged for this course.

Prerequisite: ART-2701C or permission of instructor

ART-2703C
Sculpture III

3 Credits

A practicum in three-dimensional expression through concentration on particular sculpture media. The student utilizes maximum studio facilities.

A special fee will be charged for this course.

Prerequisite: ART-2702C

ART-2750C
Ceramics I

3 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 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 Credits

Emphasizes individual ceramics projects.

A special fee will be charged for this course.

Prerequisite: ART-2751C

ART-2901
Directed Independent Study: Ceramics

3 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 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 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 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 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 in Art

3 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.

Prerequisites: ART-1300C, ART-1500C or ART-1201C

AST-1002C
Astronomy

3 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 are required.

AST-1002H
Honors Astronomy

3 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 are required.

ATE-1001
Introduction to Veterinary Technology

1 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 are required.

ATE-1110
Animal Anatomy

3 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.

Corequisite: ATE-1110L

ATE-1110L
Animal Anatomy Laboratory

1 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 are required.

Corequisite: ATE-1110

ATE-1211
Animal Physiology

3 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.

Prerequisites: ATE-1110 and ATE-1110L

ATE-1311L
Veterinary Office Procedure Laboratory

1 Credit

Designed to acquaint the student with office procedures, client education, mathematics and veterinary computer applications.

Prerequisites: College level reading, writing and math skills are required.

ATE-1630
Pharmacology for Veterinary Technicians

1 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: College level reading, writing and math skills are required.

ATE-1650L
Veterinary Clinical Practice

1 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.

Prerequisites: College level reading, writing and math skills are required.

ATE-1741
Veterinary Medical Terminology

1 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 are required.

ATE-1943
Veterinary Work Experience I

1 Credit

A course consisting of supervised clinical experience in a workplace approved and monitored by the instructor and in class time. Skills emphasized in ATE 1001, ATE 1311L and ATE 1650L will be reinforced.

Prerequisites: ATE-1001, ATE-1311L and ATE-1650L

ATE-1944
Veterinary Work Experience II

1 Credit

A course consisting of supervised clinical experience in a work place approved and monitored by the instructor and in class time. Skills emphasized in ATE 1943, ATE 2652L, ATE 2638 and ATE 2638L will be reinforced.

Prerequisites: ATE-1943, ATE-2652L, ATE-2638 and ATE-2638L

ATE-2020
Contemporary Clinical Issues

3 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. Students will also be exposed to situational animal behavior as well as staff-owner interactions and end-of-life issues in domestic pets.

Prerequisites: College level reading, writing and math skills are required.

ATE-2050
Small Animal Breeds & Behavior

1 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: College level reading, writing and math skills are required.

ATE-2501
Professional Development/Ethic Seminar

1 Credit

Introduces the student with the laws and agencies governing the care, use and movement of animals and livestock. Veterinary ethics, resume writing and employment skills, and current trends in veterinary practice will also be described.

ATE-2611
Animal Medicine I

3 Credits

Designed to acquaint the student with anesthesiology, the asepsis and general surgical nursing care, essentials in pharmacy and pharmacology, concepts in microbiology, virology and immunology.

Prerequisite: ATE-1110

ATE-2612
Small Animal Nursing

3 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.

Prerequisite: ATE-2631

ATE-2614
Animal Medicine II

3 Credits

This course will explore general pathology, causes and nature of disease, toxicology, and an overview of pathologies of major systems, as well as immunity disease prevention, common vaccinations and diseases relating to small animals.

Prerequisite: ATE-2611

ATE-2631
Animal Nursing

3 Credits

The student will master the technical skills of medicating animals and the taking and processing of radiographs. This course also covers general care, including grooming and bathing, feeding and watering, nail trimming, ear cleaning, anal sac expression, and determination of vital signs.

Prerequisites: College level reading, writing and math skills are required.

ATE-2636
Large Animal Clinical & Nursing Skills

2 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.

ATE-2638
Animal Clinical Pathology

3 Credits

This course is designed to introduce the veterinary technician to common parasites and their life cycles seen in routine veterinary practice. Also, hematology and the kinetics of the hematopoietic system are discussed with emphasis on normal blood smears and common changes seen during disease stages of the domestic animals.

Prerequisite: ATE-2638L

Corequisite: ATE-1110

ATE-2638L
Animal Clinical Pathology Laboratory

2 Credits

This course is designed to acquaint the student with clinical laboratory procedures covered in ATE 2638. Areas of emphasis include hematology, coagulation and parasitology as well as general laboratory etiquette.

Prerequisite: ATE-2638

Corequisite: ATE-1110

ATE-2639
Animal Clinical Pathology II

3 Credits

This course covers selected topics in immunology, serology, and parasitology. Laboratory testing of the renal, hepatic pancreatic, digestive and endocrine systems are discussed as well as normal and abnormal exploitive cytology.

Prerequisite: ATE-2639L

Corequisite: ATE-2638 ATE-2638L

ATE-2639L
Animal Clinical Pathology Laboratory II

2 Credits

Provides experience in the clinical techniques of comparative hematology, serology, cytology, and bacterial and fungal cultures.

Prerequisite: ATE-2639

Corequisite: ATE-2638 ATE-2638L

ATE-2651L
Animal Nursing & Medical Laboratory

2 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: College level reading, writing and math skills are required.

ATE-2652L
Intro to Clinical Practice Laboratory

1 Credit

An introductory course providing the basic knowledge of skills used in veterinary practice for induction and monitoring of anesthesia, preparation of the patient for surgery, surgical assisting and basic radiographic technique.

Prerequisites: ATE-1650L and ATE-1110

ATE-2661
Large Animal Diseases

1 Credit

This course is designed to acquaint the student with the fundamentals of preventive medicine and common diseases present in large animals.

Prerequisites: College level reading, writing and math skills are required.

ATE-2671L
Medicine of Laboratory Animals

2 Credits

A study of the technical and clinical aspects of laboratory animal care, including restraint and handling, common diseases, and nutrition.

Prerequisites: College level reading, writing and math skills are required.

ATE-2710
Animal Emergency Medicine

2 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.

Prerequisite: ATE-1110

ATE-2722
Avian & Exotic Pet Medicine

2 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: College level reading, writing and math skills are required.

ATE-2945
Veterinary Work Experience III

1 Credit

A course consisting of supervised clinical experiences in a workplace approved by the instructor. Experience may include exotic laboratory animal or specialty practice experience.

Prerequisite: ATE-1944

ATE-2946
Veterinary Work Experience IV

1 Credit

A course consisting of supervised clinical experiences in a workplace supervised by the instructor. Experiences may include exotic laboratory animals or specialty practice experience.

Prerequisite: ATE-2945

BCN-1210
Construction Materials and Processes

3 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 to Graphic Technology

3 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 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 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-2942
Construction Internship

3 Credits

Student works a minimum of 140 hours during one term in a pre-approved industrial job; also attends a weekly seminar.

BCT-2770C
Construction Estimating

3 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 Credits

Focuses on the processes which occur in plants. Topics include photosynthesis, respiration, mineral nutrition, transpiration and plant growth regulations.

BRC-1301
Introduction to Credit Unions

3 Credits

This course is a systematic introduction to the Credit union movement. It begins with a basic explanation of the nature of Credit unions and their history and a brief explanation of affiliated organizations, including the NUCA. The legal basis for the operation of Credit unions is examined. The powers and characteristics of Credit unions, including share drafts and visa cards and traditional services are also explored. The roles and functions of Credit union management are discussed in length. The developing Credit union financial system and the basics of Credit insurance and bonding are also explained.

BRC-1321
Principles of Credit and Collections

3 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 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 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.

BSC-1010
Biological Science I

3 Credits

Intended for science majors. Introduces students to the science of biology. Topics include aspects of biochemistry, cytology, cellular metabolism, and genetics.

Prerequisite: BSC-1010L College level reading, writing and math skills are required.

Corequisite: CHM-1045

BSC-1010L
Biological Science I Laboratory

1 Credit

A special fee will be charged for this course.

Prerequisite: BSC-1010 College level reading, writing and math skills are required

Corequisite: MAT-0024C

BSC-1011
Biological Science II

3 Credits

Intended for science majors. Emphasizes a phylogenetic survey of the five kingdoms of living organisms, together with an introduction to ecology and behavior.

Prerequisite: BSC-1010 and BSC-1010L

Corequisite: BSC-1011L

BSC-1011H
Honors Biological Science II

3 Credits

Same as BSC 1011 with honors content. Honors Institute permission required.

Prerequisite: BSC-1010 BSC-1010L

Corequisite: BSC-1011L

BSC-1011L
Biological Science II Laboratory

1 Credit

A special fee will be charged for this course.

Prerequisites: BSC-1010 and BSC-1010L. College level reading skills required.

Corequisite: BSC-1011

BSC-1025
Nutrition & Drugs

3 Credits

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.

Prerequisites: College level reading, writing and math skills are required.

Corequisite: BSC-1025L

BSC-1025L
Nutrition & Drugs Lab

1 Credit

A special fee will be charged for this course.

Prerequisites: College level reading and writing skills are required.

Corequisite: BSC-1025

BSC-1085
Human Anatomy & Physiology I

3 Credits

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.

Prerequisites: College level reading, writing and math skills are required.

Corequisite: BSC-1085L

BSC-1085L
Human Anatomy & Physiology I Laboratory

1 Credit

A special fee will be charged for this course.

Prerequisites: College level reading, writing and math skills are required.

Corequisite: BSC-1085

BSC-1086
Human Anatomy & Physiology II

3 Credits

Focuses on cardiovascular, respiratory, digestive, endocrine, immune, lymphatic, urinary and reproductive systems.

Prerequisite: BSC-1085

Corequisite: BSC-1086L

BSC-1086L
Human Anatomy & Physiology II Lab

1 Credit

A special fee will be charged for this course.

Prerequisite: BSC-1085L. College level reading and writing skills are required.

Corequisite: BSC-1086

BSC-1092C
Human Biology

3 Credits

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.

Prerequisites: College level reading, writing and math skills are required.

BSC-2091C
Survey of Gross Anatomy

1 Credit

Survey of gross anatomy of the human body for students on Allied Health or vocational tracks for an occupation in the medical field. Students are introduced to each major system of the body and will study interrelationships between the muscles, nerves, vessels, and organs of the human body. Prepared cadavers and models will be used for demonstration.

Prerequisites: BSC-1086 and BSC-1086L

BSC-2099C **Gross Anatomy**

2 Credits

Introduction to gross anatomy of the human body for students on an Allied Health or pre-medical track. Students are introduced to each major system of the body; and will study anatomic and functional interrelationships between the muscles, nerves, vessels, and organs of the human body, and dissect a human cadaver.

Prerequisites: BSC-1086 and BSC-1086L

BUL-1241 **Business Law I**

3 Credits

Covers the main concepts of legal institutions, the legal environment, business ethics, public and private business law, contracts, business regulations the UCC and related laws.

BUL-2242 **Business Law II**

3 Credits

Covers commercial paper, agency, partnerships, corporations, secured transactions, bankruptcy, securities regulations, real and personal property, trusts, wills and associated legal problems.

Prerequisite: BUL-1241

CAP-1023 **Introduction to Game Development**

3 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 storyboarding, 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 2023 **Game Design and Development**

3 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 and 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 2024 **Advanced Game Design and Development**

3 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 apply lighting and shading. Other projects allow the student to apply inverse and forward kinematics to create 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 2023

CAP-2816 **Database Management II**

1 Credit

Focuses on advanced data file techniques. Students enrolled in a degree or college credit certificate program must complete all prerequisites.

Prerequisite: CGS-1540 or permission of the instructor

CAP-2840 **Personal Financial Management**

1 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 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 concern with his/her area of curriculum emphasis.

CCJ-1010 **Introduction to Criminology**

3 Credits

Focuses on the complex factors related to crime in America, including basic issues, scope and economic impact.

CCJ-1020 **Introduction to Criminal Justice**

3 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-1500 **Juvenile Delinquency**

3 Credits

Focuses on the history, nature, causes and scope of juvenile crimes with an examination of the justice system and treatment facilities.

CCJ-1935 **Seminar on Criminal Justice Issues**

3 Credits

Focuses on selected topics and issues not usually covered in other courses.

CCJ-2013 **Introduction to Victimology**

3 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.