

## Course Descriptions

**ABAC 1000 FRESHMAN SEMINAR.** 1 hour. Two hours of lecture each week for the first half of the semester. This course is designed to provide orientation to the institution and to college living that will aid the student in transition to the college environment. Fall, Spring, Summer.

**ACCT 2101 PRINCIPLES OF ACCOUNTING I.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. A study of the underlying theory and application of financial accounting concepts. Fall, Spring, Summer.

**ACCT 2102 PRINCIPLES OF ACCOUNTING II.** 3 hours. Prerequisite: ACCT 2101 with a "C" or better. A study of the underlying theory and application of managerial accounting concepts. Fall, Spring, Summer.

**AECO 1150 FARM ORGANIZATION AND MANAGEMENT.** 3 hours. A study of farm management with major emphasis upon decision-making and efficient use of farm resources. Fall.

**AECO 2200 AGRICULTURAL RECORDS.** 3 hours. A study of the accounting and financial data in agriculture and how it may be used to manage various agricultural organizations through the preparation and analysis of financial statements. Fall.

**AECO 2258 APPLIED ECONOMICS.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. A study of the economic principles of Agricultural Economics and the application of these principles to the solution of agricultural and farm business problems. Not open to students with credit for ECON 2106. Fall, Spring.

**AECO 2260 AGRICULTURAL MARKETING.** 3 hours. A technical course of marketing methods, practices and policies in agriculture. The course emphasizes the management applications of marketing techniques in an agricultural environment. Spring.

**AECO 3430 AGRICULTURAL FINANCIAL MANAGEMENT.** 3 hours. Prerequisite: ACCT 2101 or AECO 2200. Introductory course in finance as used in agribusiness, farming, financial institutions, and more broadly in the financial services industry. Emphasis will be placed on reading and interpreting financial statements, analyzing investment opportunities, and understanding financial issues. Fall.

**AECO 3800 FOOD AND AGRICULTURE MARKETING.** 3 hours. Prerequisite: AECO 2258 or ECON 2106, and AECO 2260. An introductory course to the marketing functions and agencies involved in moving farm products to consumers. Course will examine application of marketing and economic principles to decision making in agribusiness firms. Spring.

**AECO 4100 AGRIBUSINESS MANAGEMENT.** 3 hours. Prerequisite: ACCT 2101 or AECO 2200, AECO 1150, and AECO 2258 or ECON 2106. Basic economic and managerial concepts, procedures, and techniques in agribusiness management. Emphasis will be placed on the techniques of planning, organization, directing, controlling, and staffing functions of management. Spring.

**AENG 1109 ENGINEERING GRAPHICS.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099; MATH 1101 or MATH 1111. A course designed to teach the use of computer aided drafting for lettering, detailing, orthographic and pictorial methods of presentations; and the representation of geometrical magnitudes by means of points, lines, planes and solids and their application in the solution of problems is also covered. Fall.

**AENG 2207 INTRODUCTORY METAL TECHNOLOGY.** 3 hours. A course designed to develop the basic understanding and skills in metal work; selection, care and use of materials, hand tools, and power equipment. Emphasis will be made in cold and hot metal work, gas and arc welding, plumbing, soldering, and surface finishing. Fall, Spring.

**AENG 3101 METAL FABRICATION.** 3 hours. Prerequisite: AENG 2207 and AENT 1113. Class designed to provide students with skills needed in agricultural equipment maintenance, repair, and fabrication. Students will experience design of metal characteristics needed in metal usages in fabrication, maintenance, and repair. Spring.

**AENG 3201 BIOFUELS TECHNOLOGY.** 3 hours. Prerequisite: AGRI 3200 with a grade of "C" or better. This course is designed to further develop the principles learned in the introductory course and apply these principles in a lab setting. The course will cover the mechanics of bio-fuel production equipment and the procedures to properly operate the equipment. The student will be actively involved in the production of a small quantity of biodiesel. Quality assurance and testing of the final product will be discussed. Spring.

**AENT 1110 FARM MACHINERY AND EQUIPMENT.** 3 hours. The study of basic farm machinery including the assembly, operation, repair and care of machinery used on the farm. Fall.

**AENT 1113 POWER EQUIPMENT.** 3 hours. A course designed to teach the operation and maintenance of various equipment used in agricultural and forest production. Fall, Spring, Summer.

**AENT 1114 TURFGRASS EQUIPMENT.** 3 hours. A study of the operation and maintenance of power equipment used in golf course and recreational park construction and maintenance. Topics include assembling, operating, servicing, welding, hydraulics, lapping and grinding, and small engine

management. Fall.

**AENT 1120 PRINCIPLES OF ENGINES.** 3 hours. A course designed to teach the theory of engines along with practical application of power units and the associated components. Fall.

**AENT 2200 AGRICULTURAL EQUIPMENT PROJECTS.** 3 hours. A conference and practical experience course directed toward the Agricultural Equipment Technology student. A project selected by the student and his advisor will form the basis for the course. Fall, Spring, Summer.

**AENT 2213 PRINCIPLES OF HYDRAULICS.** 3 hours. A course designed to teach the hydraulic theory of transmission of power: Analysis of hydraulic systems by mathematical means and testing are covered. Spring.

**AENT 2220 DRAINAGE, IRRIGATION AND EROSION CONTROL.** 3 hours. This course includes many of the practical aspects and field techniques of soil and water conservation with emphasis in those aspects important to the Southeast. A study is made of the nature of the erosion processes and the need for conservation practices. The design and construction of terraces, waterways, drainage systems, irrigating systems and farm ponds are covered. Spring, Summer.

**AENT 2269 INTERNSHIP.** 12 hours. An internship for students in Agricultural Equipment Technology should have completed 27 semester hours prior to enrolling. Fall, Spring, Summer.

**AENT 2280 FARM ELECTRIFICATION.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. A basic course in electrification designed to cover AC and DC electrical principles. Electrical wiring, load capacity, and current carrying capability will be stressed. Spring.

**AGRI 2200 AGRICULTURAL PROJECTS.** 3 hours. A conference and practical-experience course directed to the technology student. A project selected by the student and advisor will form the basis of this course. Individual and group problems related to projects will be discussed. Fall, Spring, Summer.

**AGRI 2201 SPECIAL PROBLEMS IN AGRICULTURE.** 3 hours. The course will be conducted in an informal manner with no regularly scheduled classes. Assignments and work will depend upon project and staff member involved. A written report will be required. Objectives are to provide the student an opportunity to become acquainted with research and problem solving in all areas of agriculture. Fall, Spring, Summer.

**AGRI 2202, 2203, 2204 INTERNSHIP.** 3 hours each. An internship for students in Agriculture and Horticulture Technology desiring to enroll in multiple non-full time internship experiences. Fall, Spring, Summer.

**AGRI 2205 INTERNSHIP.** 6 hours. An internship for students in Agriculture and Horticulture Technology desiring to enroll for 6 credit hours in one semester. Fall, Spring.

**AGRI 2206 INTERNSHIP.** 12 hours. An internship for students in the Agricultural Business Technology program. Fall, Spring, Summer.

**AGRI 2207 INTERNSHIP.** 12 hours. An internship for students in the Agriculture Production Technology program. Fall, Spring, Summer.

**AGRI 2208 INTERNSHIP.** 12 hours. An internship for students in the Livestock Production Technology program. Fall, Spring, Summer.

**AGRI 2209 AGRICULTURAL SEMINAR.** 1 hour. Prerequisite: Exemption from or successful completion of READ 0099. An industry-awareness and exploration course consisting of various topics associated with the agricultural industry. Fall, Spring.

**AGRI 3200 INTRODUCTION TO BIOFUELS.** 3 hours. This course introduces students to Biofuels. Students will gain basic knowledge of their importance, uses, sources, production, economics and environmental impacts. Fall.

**AGRI 4200 BIOFUELS PRODUCTION AND ECONOMICS.** 3 hours. Prerequisite: AENG 3201 and AGRI 3200 with a grade of "C" or better. This course is designed for students with an in-depth look at bio-fuels production and effectiveness. Students will gain an understanding of the economic impacts of the bio-fuel industry while learning about the current and proposed industry composition. Spring.

**AGRI 4500 FARM OPERATIONS.** 3 hours. Prerequisite: Senior standing, and the following courses: AECO 4100, AGRY 3510, and ASLH 2010. This is a capstone course in which students will be involved in all aspects of a diversified farm operation. This includes crop production, animal management, equipment use and business management. Spring, Summer.

**AGRI 4700 INTERNATIONAL EXPERIENTIAL LEARNING.** 3 hours. Prerequisite: Approval by Selection Committee. This course is designed to allow students in the Diversified Agriculture program the opportunity to study, experience and learn in an organized and structured international environment. Critical and rational thinking skills and problem-solving opportunities will be exercised. Students will be accompanied by a college faculty member throughout the tenure of the study which will include both classroom presentations and site observations in agriculture in this foreign setting. As needed.

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**AGRP 1125 FUNDAMENTALS OF PLANT PROTECTION.** 3 hours. A combined lecture and laboratory course embracing the basic principles of insects, disease and weed control in field crops and turfgrass. Emphasis is given to widely applicable control principles and the practical application of control methods. Fall, Spring.

**AGRP 1126 PESTICIDE APPLICATION.** 1 hour. Discussions and practicums offered over an 8-week session. Focus will include interpreting pesticide labels, pesticide selection and calibrations, safe mixing practices and equipment calibrations. A basic understanding of mathematics will be needed to successfully complete mathematical problems associated with calibrations. Fall and Spring.

**AGRP 3240 WEED MANAGEMENT.** 3 hours. Prerequisite: AGRP 1125 or HORT 2232. Managing turfgrass weeds, weed life cycles and identification, safeguarding the environment, weed specificity, grass and grass-like plants, broadleaf plants, herbicide selectivity and specificity, cultural and biological management, plant growth regulators, and integrated weed management programs will be discussed. Spring.

**AGRP 3319 AGRICULTURAL CHEMICAL APPLICATION TECHNIQUES.** 3 hours. Prerequisite: AGRP 1125. Equipment and procedures used for applying agricultural chemicals. Calibration, safety, and EPA regulations will be emphasized. Fall.

**AGRP 3320 PLANT DISEASE MANAGEMENT.** 3 hours. Prerequisite: AGRP 1125 with a grade of "C" or better. This course is designed to familiarize students with the basic concepts of plant pathology and the management techniques used to reduce damage caused by plant diseases to an acceptable level. Each of the major groups of plant pathogenic organisms will be discussed, with an emphasis on biology of the pathogens, disease diagnosis and sound disease management practices. Plant disease management using ecologically sound, integrated techniques will be discussed. Fall.

**AGRP 4422 INSECT PEST MANAGEMENT.** 3 hours. Prerequisite: AGRP 1125. Management and identification of insect pests in row crops and animal agriculture in the south. Emphasis will be made on integrated insect pest management utilizing techniques that are environmentally sound, including biological, cultural, and chemical methods. Spring.

**AGRY 1110 FORAGE CROPS AND PASTURES.** 3 hours. A combined lecture and laboratory course designed to study in greater detail the crops pertaining to livestock farming. Emphasis is placed on the grasses, legumes and grain crops produced in the area. Topics include assessment, crop production, grazing schedules, pasture renovation and basic plant biology. Fall.

**AGRY 2020 SOILS AND FERTILIZERS.** 4 hours. Prerequisite: Exemption from or successful completion of MATH 0099. A lecture course with a laboratory component designed to complement and support course work in the division's various agricultural programs. Emphasis is placed on the more important soil properties, the nutrient requirements of plants, and fertilizers. Fall, Spring.

**AGRY 2030 FIELD CROP PRODUCTION.** 3 hours. Prerequisite: Exemption from or successful completion of MATH 0099. A lecture course with a laboratory component designed to familiarize students with the basic principles and theories for modern field crop production. Emphasis is placed on the major field crops of Georgia and the Southeast. All aspects of production are covered from initial planning to market. Spring.

**AGRY 3510 SOIL MANAGEMENT.** 3 hours. Prerequisite: AGRY 2020. Management of soils used in turfgrass, vegetable and crop production. Topics include Soil Use, Alkaline/Acid Soils, Salt-affected Soils, Soil Conservation, Problem Soils, Fertilizers, and Fertility Programs. Fall.

**ARTS 1010 DRAWING.** 3 hours. 6 hours lab per week. An introduction to the techniques, principles and materials of drawing. A foundation course in which concepts of composition, figure/ground, line, and value plus the techniques of contour and gesture drawing and the conventions of linear and aerial perspective are studied using a variety of traditional and non-traditional drawing techniques. Fall.

**ARTS 1020 TWO DIMENSIONAL DESIGN.** 3 hours. 6 hours lab per week. An elementary course in formal elements of art and principles of two-dimensional design and an introduction to color theory. Fall.

**ARTS 1030 THREE DIMENSIONAL DESIGN.** 3 hours. 6 hours lab per week. A course in principles of three-dimensional design. An introduction to the methods, materials, tools and safety-procedures of sculpture. Spring.

**ARTS 1040 INTRODUCTION TO CAREERS IN VISUAL ART.** 1 hour. Exemption from or successful completion of READ 0099, ENGL 0099 and MATH 0099. An introduction to the options for professional training and careers in the visual arts. Fall.

**ARTS 2030 COMPUTER ARTS.** 3 hours. 6 hours lab per week. An introductory course to develop basic skills in computer applications used in the visual arts. Students explore the computer and digital technologies as tools to produce digital images for commercial and fine art. Spring.

**ARTS 2211 ART HISTORY I.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A survey of Western art from prehistoric through medieval times. The formal

characteristics of the painting, sculpture, architecture, and some of the minor arts will be analyzed. An introduction to the basic knowledge necessary for painting, sculpture, and the related arts. A study of outstanding examples of painting, sculpture, and the related arts. Spring, even years.

**ARTS 2212 ART HISTORY II.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A survey of Western art from the early Renaissance to the present. The formal characteristics of the painting, sculpture, architecture, and some of the minor arts will be analyzed. An introduction to the basic knowledge necessary for the understanding and appreciation of the visual arts. A study of outstanding examples of painting, sculpture, and the related arts. Spring, odd years.

**ARTS 2213 ART APPRECIATION.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. An introduction to the basic knowledge necessary for the understanding and appreciation of the visual arts. A study of outstanding examples of painting, sculpture, and the related arts. Fall, Spring.

**ARTS 2216 INTRODUCTION TO PAINTING.** 1 hour. 2 hours lab per week. An introduction to the techniques, principles and materials of painting. This course is intended for non-art majors. Fall.

**ARTS 2217 PAINTING.** 3 hour. 6 hours lab per week. An introduction to the techniques, principles and materials of painting. Fall.

**ARTS 2240 CERAMICS.** 3 hours. 6 hours lab per week. An introduction to basic clay hand building techniques, glazing processes, kiln firing methods and hand-building techniques, including pinch, coil, and slab construction. Spring.

**ARTS 2241 CERAMICS II.** 3 hours. 6 hours lab per week. Advanced study in ceramics. A continuation of Art 2240. Spring.

**ARTS 2242 CERAMICS III.** 3 hours. 6 hours lab per week. Advanced study in ceramics. A continuation of Art 2241. Spring.

**ASLH 1000 CAREERS IN THE LIVESTOCK INDUSTRY.** 1 hour. This course introduces students to the diverse options of careers related to the United States beef, swine, poultry and equine industries. Students will learn the principles of and demonstrate their ability to create a career exploration system that results in career planning, preparation and placement. Students will create a resume', career plan, internship plan and career shadowing plan. Guest speakers representing career areas will be used extensively. Fall.

**ASLH 1125 INTRODUCTION TO POULTRY SCIENCE.** 3 hours. An introductory course designed to cover the basics of the poultry industry including breeds, basic nutrition, and the biology of the domestic fowl and the application of the factors to the poultry industry. Fall.

**ASLH 2000 PRACTICUM IN ANIMAL SCIENCE.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. Care and techniques of farm animal management, handling, movement, restraint and facilities needed for efficient and profitable animal production. Fall, Spring.

**ASLH 2010 INTRODUCTION TO ANIMAL SCIENCE.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. Co-requisite: ASLH 2010L. A study of basic principles of animal genetics, selection, nutrition, growth, reproduction and lactation. Economic importance of livestock and poultry are emphasized. Fall, Summer.

**ASLH 2203 ELEMENTS OF DAIRYING.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. A grade of "C" or better in ASLH 2010. An elementary course dealing with dairying and its relationship to agriculture. Includes the areas of breeding, nutrition, marketing of milk, facilities, and the management of the dairy herd. Spring.

**ASLH 3110 FOOD ANIMAL EVALUATION AND SELECTION.** 3 hours. Prerequisite: ASLH 2010 and BIOL 1003/L or BIOL 2107/L with a grade of "C" or better. Students will learn the factors affecting the value of market and breeding beef cattle and swine, and learn the process of predicting genetic differences and product differences among a population. Problem solving and decision making will be utilized. Fall odd years.

**ASLH 3120 HERD HEALTH.** 3 hours. Prerequisite: ASLH 2010 and BIOL 1003/L or BIOL 2107/L with a grade of "C" or better. Causes, clinical signs, treatments and prevention of the economically important diseases of beef and dairy cattle as well as swine. Emphasis on management practices that prevent disease. Spring even years.

**ASLH 3318 PHYSIOLOGY OF REPRODUCTION.** 3 hours. Prerequisite: ASLH 2010, and BIOL 1003/L or BIOL 2107/L. Principles of reproduction in farm animals including factors related to the estrous cycle, gestation/pregnancy, lactation, gametogenesis, fertilization, and parturition. Fall.

**ASLH 4205 BEEF PRODUCTION.** 3 hours. Prerequisite: ASLH 3110, ASLH 3120, ASLH 3318, and ASLH 4405 with a grade of "C" or better. Beef Production is a senior level 'capstone' course for the BAS Diversified Agriculture student. It is designed to draw on the student's educational background and

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experiences, as well as employ critical thinking and problem solving to make and defend management decisions. The course will focus on the many resources utilized within a beef cattle operation, the interactions of biological principles and the resulting economic implications. Travel will be required of students over spring break to beef cattle operations. Spring.

**ASLH 4405 APPLIED ANIMAL NUTRITION.** 3 hours. Prerequisite: the following courses with a grade of "C" or better: ASLH 2010; BIOL 1003/L or BIOL 2107/L; and MATH 1002 or equivalent math. A review of applied nutritional practices and management, and ration formulation for beef and dairy cattle, horses, swine, and poultry. Fall.

**BIOL 1003 INTRODUCTORY BIOLOGY I.** 3 hours. Prerequisite: Exemption from or successful completion of ENGL 0099 and READ 0099. Co-requisite: BIOL 1003L. Three hours of lecture each week. General topics to be covered include cell structure and function, cell division, plant and animal energy pathways, genetics and evolution. This course is intended for non-science majors only. Fall, Spring, Summer.

**BIOL 1003L INTRODUCTORY BIOLOGY I LABORATORY.** 1 hour. One two-hour laboratory period each week to accompany BIOL 1003. Fall, Spring, Summer.

**BIOL 1004 INTRODUCTORY BIOLOGY II.** 3 hours. Prerequisite: BIOL 1003/1003L with a grade of C or higher. Co-requisite: BIOL 1004L. Three hours of lecture each week. General topics to be covered include diversity of viruses and bacteria, plant and animal classification, structure and function of major plant and animal systems and ecology. Human biology is emphasized during the latter part of the course. This class is intended for the non-science major interested in a general understanding of biological concepts. Fall, Spring, Summer.

**BIOL 1004L INTRODUCTORY BIOLOGY II LABORATORY.** 1 hour. One two-hour laboratory period each week to accompany BIOL 1004. Fall, Spring, Summer.

**BIOL 2011 HUMAN ANATOMY AND PHYSIOLOGY I.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. Co-requisite: BIOL 2011L. Three hours of lectures each week. A detailed, integrated study of the structure and function of the human body including basic chemistry of living systems, study of the cell; tissues; and the integumentary, skeletal, muscular, nervous, and endocrine systems. Fall, Spring, Summer.

**BIOL 2011L HUMAN ANATOMY AND PHYSIOLOGY I LABORATORY.** 1 hour. One two-hour laboratory period each week to accompany BIOL 2011. Fall, Spring, Summer.

**BIOL 2012 HUMAN ANATOMY AND PHYSIOLOGY II.** 3 hours. Co-requisite: BIOL 2012L. Prerequisite: BIOL 2011 and 2011L with a grade of C or higher. Three hours of lecture each week. A continuation of BIOL 2011 including study of the cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems. Fall, Spring, Summer.

**BIOL 2012L HUMAN ANATOMY AND PHYSIOLOGY II LABORATORY.** 1 hour. One two-hour laboratory period each week to accompany BIOL 2012. Fall, Spring, Summer.

**BIOL 2026 VERTEBRATE ZOOLOGY.** 3 hours. Co-requisite: BIOL 2026L. Prerequisite: BIOL 2107 and 2107L and BIOL 2108 and 2108L with a grade of C or higher or BIOL 2012 and 2012L with a grade of C or higher. Three hours of lecture each week. A study of the classification, life histories, development, behavior, structure and function of vertebrate animals. Spring.

**BIOL 2026L VERTEBRATE ZOOLOGY LABORATORY.** 1 hour. One two-hour laboratory period each week to accompany BIOL 2026. Spring.

**BIOL 2050 PRINCIPLES OF MICROBIOLOGY.** 3 hours. Co-requisite: BIOL 2050L. Prerequisite: BIOL 2107 and 2107L with a grade of C or higher or BIOL 2012 and 2012L with a grade of C or higher. Three hours of lectures each week. A study of the basic microorganism including pathogens, culturing, methods of staining, disinfection and disease. Fall, Spring, Summer.

**BIOL 2050L PRINCIPLES OF MICROBIOLOGY LABORATORY.** 1 hour. Two one-hour laboratory periods each week to accompany BIOL 2050. Fall, Spring, Summer.

**BIOL 2107 PRINCIPLES OF BIOLOGY I.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. Co-requisite: BIOL 2107L. Three hours of lecture each week. An integrated introduction to modern biology from atomic particles to evolution. General topics to be considered include chemical, molecular and cellular basis of life, photosynthesis, cell metabolism, cell division, genetics, biotechnology, and evolution. This course is intended for science related majors. Fall, Spring, Summer.

**BIOL 2107L PRINCIPLES OF BIOLOGY I LABORATORY.** 1 hour. One two-hour laboratory period each week to accompany BIOL 2107. Fall, Spring, Summer.

**BIOL 2108 PRINCIPLES OF BIOLOGY II.** 3 hours. Co-requisite: BIOL 2108L. Prerequisite: BIOL 2107 and BIOL 2107L with a grade of C or higher. Three hours of lecture each week. General topics to be considered include Domain/Kingdom diversity and classification, plant and animal structure and physiology, plant and animal reproduction, animal homeostasis, responsiveness, coordination, and ecology. This course is

intended for science related majors. Fall, Spring, Summer as needed.

**BIOL 2108L PRINCIPLES OF BIOLOGY II LABORATORY.** 1 hour. One two-hour laboratory period each week to accompany BIOL 2108. Fall, Spring, Summer as needed.

**BUSA 1101 BUSINESS SEMINAR.** 1 hour. An industry awareness and exploration course consisting of various topics associated with Business and Economics.

**BUSA 1105 INTRODUCTION TO BUSINESS.** 3 hours. An integrative survey of the functional areas of business (finance, operations, marketing, human resources, etc.). Fall.

**BUSA 2105 COMMUNICATING IN THE BUSINESS ENVIRONMENT.** 3 hours. Prerequisite: ENGL 1101 with a grade of "C" or better. Emphasizes both interpersonal and organizational communications as they relate to the business environment; includes delivery of different types of speeches as well as written exercises appropriate to business practice; designed to develop written and oral communication skills including the clear, concise, effective oral presentation of ideas and to develop an acceptable speaking voice. Fall, Spring.

**BUSA 2106 THE ENVIRONMENT OF BUSINESS.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. An introduction to the legal, regulatory, political, social, ethical, cultural, environmental and technological issues which form the context for business; to include an overview of the impact of demographic diversity on organizations. Spring.

**BUSA 2155 BUSINESS LAW.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. A general study of law and its relationship to business. Special emphasis is upon the Law of Contracts as related to sales, property, negotiable instruments, and business organization. Fall.

**BUSA 3150 BUSINESS FINANCE.** 3 hours. Prerequisite: ACCT 2101. Introduction to the principles of financial management as applied to the business or organization including financial analysis, acquisition of funds, capital structure, dividend policy, working capital management, and evaluation and assessment. Formerly course number FINC 3100. Spring.

**CHEM 1211 PRINCIPLES OF CHEMISTRY I.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099, ENGL 0099, and MATH 0099. Co-requisite: CHEM 1211L. Co-requisite: MATH 1111. Three hours of lecture each week. A general course in chemistry including dimensional analysis, atomic and molecular structures, chemical and physical properties, gas laws, and solutions. Fall, Spring, Summer.

**CHEM 1211L PRINCIPLES OF CHEMISTRY I LABORATORY.** 1 hour. One-two hour laboratory and one one-hour lab preparation/recitation period each week to accompany CHEM 1211. Fall, Spring, Summer.

**CHEM 1212 PRINCIPLES OF CHEMISTRY II.** 3 hours. Co-requisite: CHEM 1212L. Prerequisite: CHEM 1211, CHEM 1211L and MATH 1111 with a grade of C or higher. Three hours of lectures each week. A continuation of CHEM 1211 including thermodynamics, kinetics, equilibrium, and selected descriptive chemistry. Fall, Spring, Summer as needed.

**CHEM 1212L PRINCIPLES OF CHEMISTRY II LABORATORY.** 1 hour. One-two hour laboratory and one one-hour lab preparation/recitation period each week to accompany CHEM 1212. Fall, Spring, Summer as needed.

**CHEM 2040 FUNDAMENTAL ORGANIC CHEMISTRY I.** 3 hours. Co-requisite: CHEM 2040L. Prerequisite: CHEM 1212 and CHEM 1212L with a grade of C or better. Three hours of lecture each week. This course covers basic topics of structure and function, organic reaction fundamentals, and stereoisomerism. Aliphatic and cyclic compounds, including alkanes, alkenes, alkyl halides, alcohol, ethers, and alkynes, are studied. Emphasis is placed upon investigating the common types of reactions these compounds undergo. Fall.

**CHEM 2040L FUNDAMENTAL ORGANIC CHEMISTRY I LABORATORY.** 1 hour. One-three hour laboratory period each week to accompany CHEM 2040. Fall.

**CHEM 2041 FUNDAMENTAL ORGANIC CHEMISTRY II.** 3 hours. Co-requisite: CHEM 2041L. Prerequisite: CHEM 2040 and 2040L with a grade of C or better. Three hours of lecture each week. This course is a continuation of CHEM 2040. Selected topics include aromatic compounds, ketones and aldehydes, carboxylic acids, amines, and amides. The structure, function, and reactivity of these compounds are investigated. IR, MS, and NMR spectroscopies are utilized as an aid in determining the structure of simple organic compounds. Spring.

**CHEM 2041L FUNDAMENTAL ORGANIC CHEMISTRY II LABORATORY.** 1 hour. One-three hour laboratory period each week to accompany CHEM 2041. Spring.

**CISM 2201 FUNDAMENTALS OF COMPUTER APPLICATIONS.** 3 hours. A course designed to assure a basic level of computer applications literacy; to include word processing, spreadsheet, data-base, LAN, e-mail and Internet utilization. Fall, Spring, Summer.

**CISM 2201H FUNDAMENTALS OF COMPUTER APPLICATIONS (HONORS).** 3 hours. A course designed to

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assure a higher level of computer applications literacy; to include word processing, spreadsheet, database, LAN, e-mail and Internet utilizations. Fall, Spring.

**COMM 1000 ORAL COMMUNICATION SKILLS.** 2 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A course in the principles of effective oral communication. Students will gain experience in research, organization, and delivery of different types of speeches. This course meets the graduation requirement for speech and may be used as one of the courses required in Area B, Institutional Options. Not appropriate for most majors. Fall, Spring.

**COMM 1100 HUMAN COMMUNICATION.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A broad based oral communication class focusing on public speaking, interpersonal and small group communication. Fall, Spring, Summer.

**COMM 1100H HUMAN COMMUNICATION (HONORS).** 3 hours. Prerequisite: Honors Program membership or permission of Honors Director. A study of the techniques required in speech research, organization, and argument development. Designed to develop advanced delivery techniques for different types of speeches in various public forums Fall.

**COMM 1110 PUBLIC SPEAKING.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099 and ENGL 0099. A study of various forms of public address, and practice in the preparation and delivery of several types of speeches. Designed for a student interested in performing advanced work in speech research and organization. Fall, Spring, Summer.

**COMM 2100 INTERPERSONAL COMMUNICATION.** 3 hours. Prerequisite: COMM 1100 or COMM 1110 and ENGL 1101 with a grade of "C" or better. Communication as it occurs in dyadic and small group settings. Primary concern is given to understanding how individuals use both verbal and nonverbal communication to affect relationships and how context affects outcome. Fall.

**COMM 2300 COMMUNICATIONS THEORY AND RESEARCH.** 3 hours. Prerequisite: COMM 1100 or COMM 1110 and ENGL 1101 with a grade of "C" or better. Introduction to the nature of academic inquiry in communications, the basic structure and methodology of professional and academic research, resources available for access to published research, and the major theories that have evolved within the communication discipline as a result of research. Spring.

**COMM 3325 INTERCULTURAL COMMUNICATION.** 3 hours. Study of communication and cultural variables and how intercultural interaction affects participants and messages. Spring.

**CRJU 1100 INTRODUCTION TO CRIMINAL JUSTICE.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. An examination of the major components of the American criminal justice system at local, state, and federal levels. The course will examine the different functions and interrelationships of police, the courts, prosecutors and defense attorneys, basic criminal law and court procedures, and the adult prison system. Fall and Summer, even numbered years.

**CRJU 1110 POLICE ADMINISTRATION.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. An examination of the administration and operation of police organizations. The course will examine the different organizational and command structures used for different police functions, the management and control functions of department administrators, recruitment and hiring practices, budget and other fiscal concerns, and other human resource issues in policing. Spring – Even numbered years

**CRJU 1125 INTRODUCTION TO POLICING.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. This course looks at the day-to-day activities of American-style policing with an emphasis on the duties and responsibilities of a patrol officer: response to criminal complaints, domestic disturbances, traffic stops, drug arrests, as well as other patrol-related functions such as citizen assistance. There will be a field experience program with local law enforcement agencies. Summer, odd numbered years.

**CRJU 1150 NARCOTICS AND DANGEROUS SUBSTANCES.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. This course examines drug abuse in American society, past and present. The course will focus on the different categories of drugs, legal and illegal, their effects and potential levels of abuse, the impact of drug abuse on other criminal activity. Domestic and foreign drug production, smuggling and law enforcement interdiction efforts will be examined, along with gangs, organized crime rings, their involvement in the illegal drug culture, and their impact on American society and crime rates. Fall

**CRJU 1165 HOMICIDE INVESTIGATION.** 3 hours. Prerequisite: Exemption from or successful completion of READ 0099. This course will provide the student with a general knowledge of homicide investigation procedures. The student will become familiar with the distinctions between cause and manner of death and the determinations of homicide, suicide, accidental and undetermined deaths. A particular focus will be on the actual mechanisms of death such as gunshot wounds, edged weapon injuries, blunt force trauma, drowning, burning, poisoning, and various forms of asphyxia. Spring, odd numbered years.

**CRJU 1170 CORRECTIONAL PROCESS.** 3 hours. Prerequisite: Exemption from or successful completion of