COURSE DESCRIPTIONS

Accounting .......................................................... 172
Art ................................................................. 173
Biological Science .............................................. 176
Business Administration ....................................... 178
Chemistry .......................................................... 179
Communications ................................................ 179
Community Counseling ........................................... 181
Computer-Aided Design Technology ...................... 182
Computer Science .............................................. 182
Cooperative Work Experience ................................ 183
Criminal Justice .................................................. 183
Economics .......................................................... 185
Emergency Medical Services ................................ 185
Engineering ....................................................... 186
English ............................................................... 186
Entrepreneurship ................................................ 187
Finance ............................................................... 188
Fitness Management ............................................. 188
General Studies .................................................. 188
Geography .......................................................... 188
Geology ............................................................. 189
German ............................................................... 189
Health, Physical Education, and Recreation ............... 189
Health Science ..................................................... 189
History .................................................................. 190
Honors ................................................................ 192
Humanities ............................................................ 192
Information Technology .......................................... 194
Languages ............................................................. 194
Library Science ..................................................... 194
Management ......................................................... 194
Manufacturing Management .................................... 196
Marketing .............................................................. 196
Mathematics .......................................................... 196
Military Science ..................................................... 197
Music ................................................................ 198
Native American Studies ......................................... 199
Nursing ................................................................. 199
Nutrition ................................................................. 200
Organizational Leadership ....................................... 201
Orientation ........................................................... 202
Pharmacology ....................................................... 202
Philosophy ............................................................ 202
Physics ................................................................. 202
Political Science .................................................... 202
Psychology ........................................................... 205
Reading ................................................................. 206
Social and Behavioral Science ................................ 206
Sociology .............................................................. 206
Spanish ................................................................. 207
Special Programs ................................................... 208
Speech ................................................................. 208
Sport Management ................................................ 208
Supply Chain Management ..................................... 209
Technology ........................................................... 209
Accounting

ACCT 1113 Introduction to Accounting
Emphasis on record keeping, double entry accounting, and financial statement preparation. This is a suggested elective, preparatory course for Accounting I-Financial. Completion of Accounting 2103 precludes enrollment in this course.

ACCT 2103 Accounting I-Financial
Accrual accounting for businesses covering basic accounting theory, corporate stocks, bonds, and classified financial statements.

ACCT 2203 Accounting II-Managerial
A first course in managerial accounting with emphasis on accounting tools for managers. Topics covered include: cost accounting, break-even point, profit analysis, variable costing, budgeting, cash flow, differential analysis, responsibility accounting, financial ratios, stocks, and bonds. Prerequisite: ACCT 2103.

ACCT 2500 Cooperative Education in Accounting
Applications of the theories, principles, and methods of accounting studies in a practical work environment. Students will learn both conceptual and applied approaches to the study of accounting and will be better prepared for a variety of career opportunities in the field. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisite: instructor’s permission required.

ACCT 3113 Intermediate Accounting I
Analyzes valuation and other theoretical problems in accounting for cash, temporary investments, receivables, inventories, long-term investments, plant and equipment, and intangible assets. Prerequisites: ACCT 2103, ACCT 2203, ECON 2123, BADM 2843, and BADM 3113.

ACCT 3123 Intermediate Accounting II
Analyzes stockholders’ equity, dilutive securities, investments, issues related to income determination including revenue recognition, accounting for income taxes, pensions, leases and error analysis, preparation and analysis of financial statements, including price level changes and statement of changes in financial position. Prerequisite: ACCT 3113.

ACCT 3133 Cost Accounting
Provides the students with basic cost principles, job order costing, process and joint costing, and estimated costs. Prerequisites: ACCT 2103, ACCT 2203, ECON 2123, BADM 2843, and BADM 3113.

ACCT 3143 Individual Income Tax Accounting
Surveys current individual income tax laws. Topics include filing requirements, includable income, adjustments, itemized deductions, and tax credits. Prerequisite: ACCT 2203.

ACCT 3243 Accounting Information Systems
The design and development of accounting systems and data uses. Prerequisite: ACCT 2203.

ACCT 3443 Nonprofit Fiscal Management
The Unified Chart of Accounts for nonprofit organizations is introduced in the course. The UCOA allows nonprofits to reliably translate their financial statements into the categories required by the IRS Form 990, the federal Office of Management and Budget, and into other standard reporting formats. The course will also cover budgeting, financial ratios, tax issues, insurance, nonprofit audits, and requirements for a 501c nonprofit, tax exempt corporation.

ACCT 3500 Cooperative Education in Accounting
Analyzes accounting information and concepts by combining professional accounting work experience with academic studies. It is a partnership among employers, students, and the University, focused on professional practice and vocational exploration. Students have an opportunity to explore their professions and apply principles acquired in the classroom. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisite: instructor’s permission required.

ACCT 4123 Internal Auditing
Provides an understanding of the concepts associated with audits that go beyond the traditional financial audit. These audits have been described by various names such as: operational audits, program audits, management audits, and performance audits. Prerequisite: ACCT 2203.

ACCT 4313 Auditing
An examination of the processes conducted by independent, internal, and governmental accountants including the standards and procedures applied in the examination of financial statements for the purpose of rendering an opinion on them. Theoretical concepts of materiality, audit risk, and evidential matter are explored, along with the auditor's understanding of controls in a sophisticated technological environment. Prerequisite: ACCT 3123.

ACCT 4323 Not-For-Profit and Governmental Accounting
An activity course involving the study of accounting processes and procedures used by state and local governmental units and other selected not-for-profit entities. Prerequisite: ACCT 2203.

ACCT 4333 Fraud Investigation
Studies the development of information and evidence needed to conduct a fraud examination. Examines investigative processes including interviewing, taking statements, examination of public records, tracing false transactions, analyzing internal and external fraud schemes, and writing the investigative report. Prerequisite: ACCT 4313.

ACCT 4343 Fraud Examination
The study of occupational fraud and abuse including asset misappropriation, corruption, and fraudulent statements. Develops an understanding of fraud examination methodology, and sets forth the schemes used by executives, managers, and employees to commit fraud against their organizations. Reviews the internal controls necessary to deter fraud, the different types of fraud, and effective prevention, detection, and investigative actions. Prerequisite: ACCT 4313.
ACCT 4353 Fraud: Criminology and Ethics
This course examines the causes of crime with a focus on white-collar crime, organizational crime, and occupational crime. Fraud prevention programs, punishment, and the criminal justice system are studied. The ethics section covers ethical issues faced by the fraud examiner and the Association of Fraud Examiners (ACFE) code of ethics. Prerequisite: ACCT 4313.

ACCT 4363 Legal Elements of Fraud
A study of the statutes and common law principles involved in prosecuting fraud. The course includes an overview of the United States legal system, the Federal Rules of Civil and Criminal Procedures, and the Federal Rules of Evidence. Legal Elements examines the laws related to fraud, individual rights during an examination, criminal prosecution for fraud, the civil justice system, basic rules of evidence, and testifying as an expert witness. Prerequisite: ACCT 4313.

ACCT 4500 Cooperative Education in Accounting
Integrates the learning that takes place in the classroom with the work experience. Students enrolled in the accounting programs experience the working environment through a coordinated agreement between the employer, the student, and the School of Business and Technology. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisite: instructor’s permission required.

ACCT 4793 Accounting Internship
Supervised professional-level accounting assignment with a business firm, government agency, or not-for-profit agency. Prerequisites: ACCT 3113 and instructor’s permission.

ACCT 5113 Accounting for Management
Theories, concepts, and techniques that are involved in meeting the information needs of managers. Includes management control systems that facilitate routine planning and control, as well as non-routine decision making. Includes cost-product-volume analysis, profit planning, internal reporting for business segments, differential costs and revenues, and behavioral aspects of managerial accounting.

ACCT 5213 Financial Statement Analysis
Examination of financial statements included in corporate reports and announcements. Topics include methods of measuring income, assets, liabilities, liquidity, solvency, return on assets and equity interest, and forecasting future cash flows.

ACCT 5223 International Accounting

ART
ART 1103 Art Foundations I
An introduction to the practical application and theoretical aspects of creating art on two-dimensional surfaces. (Formerly ART 1003)

ART 1151 BFA Success Strategies
Eight week course introducing students to the artistic and academic resources available at RSU and their necessary and effective utilization for completing the Bachelor of Fine Art degree.

ART (HUM) 1113 Art Appreciation
Illustrated lecture course surveying the role and dimension of art with a general examination of art theory, art media, and art history.

ART 1203 Art Foundations II
An introduction to the practical application and theoretical aspects of creating art with three-dimensional media.

ART 1213 Digital Foundations
An introduction to the Macintosh operating system, peripherals, and storage of graphic-based work. Discussion of raster vs. vector graphics and their strengths and weaknesses. A broad overview of some of the software and the parameters it defines for the artist. An introduction to the issues surrounding cross platform graphics. Production of original artworks.

ART 1223 Graphic Design I
This class provides a strong foundation in computer graphics through the use of Adobe PhotoShop and traditional design concepts with related assignments. A thorough knowledge of materials and techniques of the computer artist is stressed. Prerequisites: ART 1103 and ART 1213

ART 1323 Typography
An in-depth study of typography as it relates to Graphic Design. Including the anatomy of letterforms, visual hierarchy, history of type, production, and type design and its various uses. Prerequisites: ART 1103 and ART 1213

ART 1413 Drawing I
Introduction to various types and uses of drawings. Black-and-white media, space and volume relations, and development of visual units of design and their integration in the whole organization. Prerequisites: ART 1103 and ART 1203.

ART 1423 Drawing II
Continuation of ART 1413 with emphasis on perspective, composition, and multimedia. Prerequisite: ART 1413 or instructor’s permission.

ART 1833 Black/White Photography I
Students will study camera operation, basic theory, materials and process, film exposure and developing techniques, contact printing and enlarging, filters and printing techniques, and print finishing. This course equips students with technical, intellectual, conceptual, and creative skills of making a photograph. Prerequisites: ART 1103. (Formerly GT 1833)
ART 1913 Printmaking I
A broad perspective and general understanding of the various printmaking processes including theory and some practical work in the following media: silkscreen, woodcuts, linoleum block, and intaglio (etching), and an explanation of lithography. Prerequisites: ART 1103 and 1203. (Formerly ART 2013)

ART 2033 Black/White Photography II
This course covers archival processing and print finishing techniques. Students will develop their own personal projects based on consultation with the instructor with the final result being a production of limited edition portfolios. Prerequisite: ART 1833.

ART 2113 Life Drawing I
Constructive figure drawing from the live model. Focus on creative attitudes, with maintenance of balance between perceptual and conceptual drawing activities. Prerequisites: ART 1103, ART 1203, and ART 1413, or instructor’s permission.

ART 2213 Watercolor I
Techniques and purposes of painting with watercolor. Prerequisites: ART 1103, ART 1203, and ART 1413 or instructor's permission.

ART 2383 Advanced Digital Imaging
This is a project-driven course in advanced imaging and handling of digital images. Emphasis will be given to design, color correction, repair, special effects and filters, and advanced image manipulation. A working knowledge of print and web requirements will be obtained. Theory/Lab. Prerequisite: ART 1223 or instructor's permission.

ART 2413 Three-Dimensional Art I
Experience in three-dimensional problems starting with an introduction to clay and its techniques including methods of firing, oxidation, reduction, and raku. Other sculptural processes discussed include mold making, metal casting, and carving. Prerequisites: ART 1103 and ART 1203.

ART 2423 Graphic Design II
An in-depth study of visual communication through the use of a vector graphics software program (Adobe Illustrator) in conjunction with a raster graphics software program (Adobe PhotoShop). Assignments are designed to extend a student’s sense of visual awareness, visual literacy, and creative thought, and strengthening the student’s portfolio. Prerequisite: ART 1223. (Formerly ART 1273)

ART 2453 Wheel-Throwing I
The nature of clay through the use of the potter’s wheel. Methods of firing include oxidation, reduction, and raku. Also discussed are glazing techniques. Prerequisites: ART 1103 and ART 1203.

ART 2553 Digital 3D Foundations
This course introduces the use of 3D programs such as Maya to create original art, illustrations, images for animation, and interactive CDs. Attention will be given to terminology. Prerequisites: ART 1103 and ART 1213. Recommended: ART 1223, ART 1413, and ART 1423.

ART 2813 Painting I
The study and application of painting. Comparison of history of painting and technique to student work. Visual and special relationships relative to painting. Use of either oil or acrylic paints. Prerequisites: ART 1103, ART 1203, and ART 1413, or instructor’s permission.

ART 2910 Individual Studio/Internship
One to four credit hours. Prerequisites: sophomore standing, instructor’s permission, and completion of all courses in any of the following areas: Drawing, Ceramics, Life Drawing, Painting, Sculpture, Watercolor, Serigraphy (silkscreen printing), Printmaking, Interior Design, or Art History.

ART 3003 Western Art History to 1400
An in-depth study of the major art movements and works in Western art history to 1400. (Formerly ART 2713)

ART 3013 Western Art History 1400-1850
The study of the movements, groups, and individuals in Western art history. The focus of the class will be directed toward the Renaissance through the precursors of Impressionism.

ART 3023 Nonprofit Fine Arts Management
This course is an overview of the management of nonprofit fine arts organizations as well as people in arts-related professions. Students will gain an awareness of the field of arts management, private and public arts agencies, and the role of the arts in local communities.

ART 3113 Life Drawing II
Students will learn the technical necessity and aesthetic benefits of working from a live model. Emphasis will be on advanced concepts in drawing. Stress on historical and contemporary influences in figure drawing. Prerequisites: ART 1103, ART 1203, ART 1413, and ART 2113, or instructor’s permission.

ART 3123 Graphic Design III
Emphasis is placed on preparing the student to successfully enter the graphic design field with an advanced understanding of design theory and a mastery of the industry’s standard software programs. Graphic design assignments are designed to create a professional quality portfolio. Creative thinking, visual literacy, and graphics theory are stressed in both print and interactive multimedia projects. Prerequisite: ART 2423. (Formerly GT 1333 and ART 2313)

ART 3133 History of Non-Western Arts
A survey and comparison of art from non-Western societies, including art from indigenous or immigrant non-Western populations living in Westernized society. (Formerly ART 2733)

ART 3213 Western Art History 1850-Present
The study of the most influential art and artists of Europe and the Americans during the middle and late modern periods. Aesthetic and historical influences as well as their effects on current art directions will be addressed. (Formerly ART 4023)
ART 3223 Watercolor II
An advanced study, application, and production of water soluble media. Elective for Art students. Prerequisite: ART 2213 or instructor's permission. (Formerly ART 2223)

ART 3233 Printmaking II
An advanced study of the disciplines and techniques of printmaking, with increased emphasis on quality and complexity of concept and design. Prerequisite: ART 1913. (Formerly ART 2353)

ART 3313 Art Theory I
Critical theory by artists as it applies to art works and culture. (Formerly ART 2373)

ART 3413 Applied/Package Design
An in-depth study of design solutions from start to comprehensive mock-ups. Special attention to signage, exhibition design, packaging, display, and point of purchase. Explores product identity and design problems associated with design. Prerequisite: ART 3123.

ART 3443 Three-Dimensional Art II
Three-dimensional problems utilizing advanced tools, media, and techniques, building upon the basics learned in 3-D Art I. This course emphasizes the student's personal design style; planning and construction of well developed and thought out sculptures. Prerequisite: ART 2413. (Formerly ART 2443)

ART 3463 Wheel-Throwing II
A continuation of ART 2453 with emphasis placed on the student's personal approach as well as production skills. Prerequisite: ART 2453. (Formerly ART 2463)

ART 3523 Artistic Authoring and Animation
Introduction to interactive multimedia applications utilizing and animating 2-D and 3-D graphics, text, sound, and digital video. Emphasis will be placed on Macromedia Flash and Action Script programming in a Macintosh environment. Theory/Lab. Prerequisite: ART 2423.

ART 3543 Artistic Website Design
This course covers principles of website architecture, planning, and production. Emphasis will be placed on aesthetics and navigation of websites. This course utilizes a WYSIWYG software (such as Dreamweaver) in a Macintosh environment. Theory/Lab. Prerequisite: ART 2423.

ART 3553 Digital 3D Studio
This is an advanced course that explores the tools and techniques used to create/animate rigid, inorganic/organic objects. Concepts for animating objects are discussed. Projects will include construction of buildings and texturing structures. Projects will also include the modeling of living beings. Prerequisite: ART 2553.

ART 3613 Painting II
Studio experiences and portfolio development of oil-based media. Some experiments with mixed-media are included in the curriculum. References to the historical development and innovations of oil painting are emphasized. Prerequisite: ART 2813.

ART 3633 Art Marketing
Through investigation of product definition, demographics, market analysis, style identity, self-promotion, and branding, students will gain a practical and aesthetic understanding of the business of art. Professional portfolio development and presentation will be emphasized. Field trips and contacts with art businesses are part of the course curriculum. Prerequisites: ART 1103, ART 1203, and ART 1213. (Formerly ART 2793)

ART 3883 Digital Color Photography
The concepts and techniques in electronic imaging will be explored through the use of color digital equipment and Adobe Photoshop. Fine Arts as well as editorial photographic standards will be addressed on the basis for critical analysis including visual awareness, visual literacy, and creative thought of the finished photograph. Prerequisites: ART 1833 and ART 1223 or instructor's permission. (Formerly ART 2883)

ART 3910 Directed Studies
This course will address particular research and applications of theory and/or production in a visual art discipline. Course content to be determined each semester. Subjects will be selected from but not limited to studies in studio, graphic arts, or art history. Open to students in a graduating semester. (1-3 credit hours.) (Formerly ART 2920)

ART 3943 Photographic Applications I
This course addresses the practice and theory of location and studio photography. Emphasis will be on the human subject, images for journalism media, and equipment operations. Prerequisites: ART 2033 and ART 3883.

ART 4223 History of Graphic Design/Multimedia
An in-depth study of the history of graphic design from prehistory to the present as it relates to modern design practices. Includes advertising, history of type, production, posters, package design styles, and trends of the field.

ART 4243 Photographic Applications II
This course explores the practical and theoretical aspects of photography for fine art images, graphic design, and illustration. Emphasis will be on photographic documentation and advertising. Prerequisite: ART 3943.

ART 4313 Art Theory II
Critical theory by philosophers from antiquity to the present as it applies to art works and culture.

ART 4333 The Italian Renaissance (1400-1600)
This course focuses on the overarching ideas of the Italian Renaissance, underscoring the art (painting, architecture, sculpture) and human culture (history, philosophy, literature, music, religion, and geopolitics) of one of the most distinctive periods in Western history. The course will provide a framework for understanding the significance of the Italian Renaissance and its impact in shaping the Western world as well as the global community.
ART 4353 Contemporary Art and Criticism (1985 to Present)
Focus on the overarching ideas and criticism informing the contemporary arts scene. Main focus is on the visual arts (architecture, sculpture, graphic design, and painting) and the critical discourses explicating them. Provide the framework for understanding the significance of contemporary art on the Western world and the global community at large.

ART 4373 Ancient Greek and Roman Art History (600 BCE to 400 CE)
Focus on the art and architecture of ancient Greece and Rome, two of the most significant periods in Western art history. Main focus is on the visual arts (architecture, sculpture, and painting) with minor attention paid to history, philosophy, literature, music, and religion. Provide a framework for understanding the significance of these ancient civilizations and their impact on the Western world.

ART 4433 Sequential Art
Student will utilize hand skills to sketch and draw storyboards. These hand-rendered storyboards will be incorporated into computer-generated three-dimensional objects in an artificial three-dimensional space leading to storyboard design, animation scripts, and the production of animation sequences to video. Prerequisite: ART 2553.

ART 4513 Art Internship
This course is designed to allow students external, for credit, learning and experimental opportunities in working visual art-related environments. Upon approval by the art faculty, students will be able to work in structured and regularly assessed art establishments.

ART 4533 Art Studies-At-Large
This course is designed to foster study external to the region. Students will study at internationally recognized art centers. May be repeated once for credit. Instructor’s permission required.

ART 4853 Graphic Design Practicum
This course incorporates all aspects of graphic design to produce various assigned live projects. This course is designed to give students practical real-world experience and live projects to enhance their portfolio. Lab. Prerequisite: ART 3123 or instructor’s permission.

ART 4953 Senior Capstone Portfolio
The Capstone Portfolio is an original, specialized project, integrating the student's cumulative academic experiences. Preparation for the Senior Project begins in the junior year with consultation with advisors. Prerequisite: Senior status.

Biological Science

BIOL 0123 Science Proficiency
The primary objective is to provide knowledge of the basic concepts and principles of physical and life sciences. This course does not apply toward total credit hours for graduation. Prerequisite: MATH 0114 or equivalent.

BIOL 1114 General Biology
General Biology provides an introduction to various topics in biological science including basic chemistry; cellular biology; studies of animals, plants, protozoans, and fungi; human biology; genetics and heredity; and environmental/population studies. This course meets the four credit hour life sciences requirement for graduation from Rogers State University and is open to any student. Lab required.

BIOL 1134 General Environmental Biology
A general survey of environmental science. Includes an introduction to basic ecological principles with an emphasis on major modes of environmental pollution. Lab required.

BIOL 1144 General Cellular Biology
An introduction to inorganic and organic chemistry, with an extensive survey of cell structure, cellular metabolism, enzymes, mitosis and meiosis, Mendelian genetics, and molecular genetics. Lab required.

BIOL 2104 General Botany
Basic processes and structures in plants and their relation to factors in the environment, reproduction heredity, heritable and nonheritable variations in plants and their causes and consequences are studied. Previous course in chemistry recommended. Lab required. Prerequisite: BIOL 1144.

BIOL 2124 Microbiology
General microbiology with emphasis on fundamentals of morphology, physiology, and growth-related activities of pathogenic and nonpathogenic organisms. Aseptic technique and common microbiological tests and procedures covered. Lab required. Prerequisite: BIOL 1144.

BIOL 2205 General Zoology
A survey of the animal kingdom, with special emphasis on phylogenetic relationships, structural adaptation, and ecological significance of the major phyla. Lab required. Prerequisite: BIOL 1144.

BIOL 2215 Anatomy and Physiology
An introduction to the principles of the structure and function of the human body. A beginning course designed to emphasize the integration of all body systems. Lab required. Prerequisite: BIOL 1144 or instructor’s permission.

BIOL 2285 Human Anatomy
A study of the structure of the human body with emphasis on organ systems. Lab required. Prerequisite: BIOL 1144 or BIOL 2205 or instructor’s permission.

BIOL 3004 Field Botany
An introduction to Oklahoma flora based upon classification, distribution, and natural history of representatives of the plant phyla of this region. Lab and extensive fieldwork required. Prerequisite: BIOL 2104.

BIOL 3014 Ecology of Mammals
A study of morphology, systematics, and distribution of mammals in Oklahoma, North America, and globally; biogeography; evolution; and physiological, morphological, and behavioral adaptations. Prerequisite: BIOL 2205.
BIOL 3024 Genetics
An introduction to basic concepts of Mendelian genetics and an inquiry into the basic processes of evolution. Lab required. Prerequisites: BIOL 1144 and CHEM 1315. MATH 2843 is recommended.

BIOL 3033 Fundamentals of Geographic Information Systems
An introduction to the theory and application of geographic information systems. Topics include spatial data models, geodesy and map projections, global positioning systems, remote sensing, basic spatial analyses and cartographic modeling. Emphasis is placed on the application of GIS to problems of biological conservation and natural resource management. Lab required. Prerequisite: MATH 1513 and CS 1113.

BIOL 3034 General Ecology
A study of the structure and function of ecosystems including a survey of the aquatic and terrestrial habitats. Includes lab and field trips. Prerequisites: BIOL 2104 and BIOL 2205.

BIOL 3103 Plants and Civilization
The study of the interaction between plants and human cultures in both historical and contemporary societies. This course examines the use of plants as medicine, foods, and materials within social and scientific settings. Prerequisite: BIOL 1114, BIOL 1134, or BIOL 1144.

BIOL 3203 Bioethics
This course is designed to introduce students to bioethics as a multidisciplinary subject through critical thinking, writing, and discussing contemporary issues through various views and settings. Students will examine the topics in the context of social, economical, judicial, and moral aspects. The topics are not limited to, but will include research ethics, stem cell research, life and death, genetic testing, gene therapy, and environmental issues. Prerequisite: BIOL 1114, BIOL 1134, or BIOL 1144.

BIOL 3204 Physiology
A study of the functions and biochemical processes of the cells, tissues, and organ systems, with special emphasis on humans. Lab required. Prerequisites: BIOL 1144 and 2285, or BIOL 2205 and CHEM 1315.

BIOL 3275 Comparative Vertebrate Anatomy
A comparative study of the morphology and evolution of the vertebrates as well as function and evolution of various representative organ systems. Lab required. Prerequisite: BIOL 2205.

BIOL 3504 Molecular Cell Biology
Course will emphasize fundamental principles of eukaryotic cell biology at the molecular and cellular levels with emphasis on cell structure and cellular and biochemical processes and mechanisms. Lab required. Prerequisites: BIOL 1144, CHEM 1315, and CHEM 1415.

BIOL 3513 Environmental Conservation
Studies the requirements and regulations of wildlife/natural resources on a regional and global scale. Emphasis will be given to ecosystem management, landscape ecology, and threats to environmental and global biodiversity. Prerequisite: BIOL 3034.

BIOL 3514 Forest Ecology and Management
A survey of topics pertaining to the ecological processes of forest ecosystems and the management of forest resources. Topics include tree ecophysiology, forest ecosystem structure and function, forest hydrology, wildlife, silviculture, and fire ecology. Lab required. Prerequisite: BIOL 2104.

BIOL 3525 Biology of Microorganisms
Structure/function, physiology, genetics, evolution, and diversity of prokaryotic microorganisms and their impact on humans and the environment. Lab required. Prerequisites: BIOL 1144 and CHEM 1415. Recommended: CHEM 3125.

BIOL 3950 Special Topics in Biology
Focus of the course is an approved area of biology to be determined by faculty for each semester offered. The course may be repeated for credit. (1-4 credit hours.)

BIOL 4014 Ornithology
A study of classification, distribution, identification, life histories, and evolution of birds. Specimen preparation and field techniques emphasize Oklahoma species. Prerequisite: BIOL 2205.

BIOL 4153 Molecular Genetics
Study of transcription, translation, and replication; and gene organization, regulation, and expression at the molecular level for prokaryotes and eukaryotes. Prerequisites: BIOL 1144 and CHEM 1415. CHEM 3125 is recommended.

BIOL 4214 Histology
The microscopic study of tissues and organs in relation to their function. Lab required. Prerequisite: BIOL 2285 or BIOL 3204.

BIOL 4303 Plant and Animal Toxicology
An introduction to the effects caused by exposure of living organisms to chemical substances. Reading, research, and discussions on environmental effects and consequences of organic and inorganic toxins are required. Prerequisites: BIOL 2104, BIOL 2205, and CHEM 3125.

BIOL 4414 Immunology
The study of innate and adaptive immune responses. Topics include cell derivation and communication and clinical applications including inflammation, hypersensitivity, autoimmunity, tolerance, and vaccinations. Lab required. Prerequisite: BIOL 3204 or BIOL 3504.

BIOL 4524 Field Zoology
An introduction to local animal life based upon classification, distribution, and natural history of representatives of the animal phyla of this region. Lab and extensive field work required. Prerequisite: BIOL 2205.

BIOL 4554 Aquatic Biology
Aquatic Biology is an introduction to the study of freshwater systems. Local freshwater ecosystems will be described and characterized in terms of physiographic and biological features emphasizing their inherent ecological relationships. Extensive fieldwork will introduce students to surveying techniques and analytical evaluation of freshwater systems. Prerequisites: BIOL 2104, BIOL 2205, and CHEM 1315. CHEM 1415 recommended.
BIOL 4602 Biology Research Methods I
Introduction to research methods and design in the biological sciences. Students will synthesize a proposal of an original research project presented in oral and written format for the benefit of a non-specialist audience. Prerequisite: eight upper-division hours in biology.

BIOL 4801 Biology Research Methods II
Investigation of research problem proposed in BIOL 4602 Biology Research Methods I. Students will complete research methods, conduct proposed research, analyze results, and present data in oral and written format for the benefit of a non-specialist audience. Prerequisite: BIOL 4602.

**Business Administration**

**BADM 1203 Introduction to Business**
Introductory course for business majors. Survey of basic principles, forms, and practices involved in administration of business. (Formerly BUS 1203)

**BADM 2013 Personal Finance**
Nontechnical personal finances. Practical applications in budgeting, banking, borrowing, insurance, investment, taxes, home ownership, and family financial planning. May be taken for elective credit only. (Formerly BUS 2013)

**BADM 2500 Cooperative Education in Business Administration**
Applications of the theories, principles, and methods of business studies in a practical work environment. Students will learn both conceptual and applied approaches to the study of business administration and will be better prepared for a variety of career opportunities in the field. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisite: instructor’s permission required.

**BADM 2843 Business Statistics**
An introduction to basic statistical terminology, organization of data, measures of central tendency and dispersions, and application of statistical techniques using business examples and statistical applications software. Includes elementary probability, sampling, estimation, software applications, and a variety of other statistical techniques to prepare the student for upper-level forecasting, linear programming, and multivariate applications. Prerequisite: MATH 1513 or higher. (Formerly BMA 2333 and cross-listed with MATH 2843.)

**BADM 3113 Business Communications**
Comprehensive view of the communication process in the business environment with emphasis on listening skills; a review of grammar; writing various types of letters, memoranda, electronic messages, employment-related messages, and reports; delivering oral presentations; and developing interpersonal skills. Prerequisite: ENGL 1113. (Formerly BADM/BUS 2523)

**BADM 3323 Legal Environment of Business**
This course covers the principles of business law for normal business transactions, with emphasis on the judicial system, general contracts, bailments, and sales contracts. (Formerly BUS 3323)

**BADM 3333 Business and Professional Ethics**
Examination of moral and ethical issues within business and professional environments. In addition to a broad study of ethical behavior and decision making, various professional codes of conduct will be examined. Central to this examination will be the discussion of integrity, independence, and objectivity, as well as legal liability. Prerequisite: MGMT 3013.

**BADM 3500 Cooperative Education in Business Administration**
Analyzes business information and concepts by combining professional work experience with academic studies. It is a partnership among employers, students, and the University focused on professional practice and vocational exploration. Students have an opportunity to explore their professions and apply principles acquired in the classroom. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisite: instructor’s permission required.

**BADM 3913 Communication Skills for Managers and Professionals**
A course designed to develop oral and written skills for managers and professionals. Common problems and solutions will be stressed with an emphasis on practical applications to meet individual needs. (Formerly COMM 3913)

**BADM 4333 International Business**
Investigates cultural influences, government, and business structures in a global economy through studying trade relations, marketing and promotion, production system, labor contracts, and international finance and accounting. Prerequisite: MGMT 3013.

**BADM 4500 Cooperative Education in Business Administration**
Integrates the learning that takes place in the classroom with the work experience. Students enrolled in the business programs experience the working environment through a coordinated agreement between the employer, the student, and the School of Business and Technology. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisite: instructor’s permission required.

**BADM 4793 Business Internship**
Supervised professional-level business assignment with a business firm, government agency, or not-for-profit agency. Prerequisites: ACCT 2103, ACCT 2203, ECON 2123, BADM 2843, BADM 3113, Junior/Senior standing, and instructor’s permission.

**BADM 5223 Business Law**
Principles of contract law and commercial business transactions with an emphasis on the Uniform Commercial Code (UCC).

**BADM 5233 Critical Thinking and Ethics**
Analysis of moral reasoning, critical thinking, and ethical decision making within a managerial framework. Includes specific studies of ethical behaviors within business disciplines, and discussion of various practical ethical benchmarks through detailed examinations of actual ethical dilemmas.
BADM 5973 Special Topics: Business Administration
Graduate seminar or project in an approved area of study. Content will be determined by the specific course offered. Course can be repeated for a maximum of 3 credit hours. Prerequisite: Permission of program director and instructor.

Chemistry

CHEM 1315 General Chemistry I
Introductory course in inorganic chemistry dealing with fundamental concepts of measurements, atomic theory, electron configuration, periodicity, bonding, molecular structure, stoichiometry, gas laws, and changes in state and thermochemistry. Laboratory required. Pre- or corequisite: MATH 1513.

CHEM 1415 General Chemistry II
This course is algebra based and is a continuation of CHEM 1315 with emphasis on kinetics, equilibrium, thermodynamics, electrochemistry, qualitative analysis, organic chemistry, biochemistry, and nuclear chemistry. Lab four hours per week. Prerequisite: CHEM 1315.

CHEM 3125 Organic Chemistry I
A two-semester study of fundamental concepts of organic chemistry including acid base theory, nomenclature, structures, reactions, and reaction mechanisms of the principle functional groups. Laboratory required. Prerequisite: CHEM 1415.

CHEM 3225 Organic Chemistry II
Continuation of CHEM 3125 covering the fundamental concepts of organic structure and reactions of the principle functional groups as well as reaction mechanisms. Laboratory required. Prerequisite: CHEM 3125.

CHEM 3404 Biochemistry
A course designed to provide chemical and analytical applications within industrial and environmental settings. Advanced laboratory skills with emphasis on EPA methods will be stressed. Labs will include proper sampling techniques, sample handling and storage, and analysis of student-obtained field samples. Prerequisite: CHEM 3125.

CHEM 3400 Environmental Chemistry
Study of compounds and reaction mechanisms occurring in living organisms. Laboratory required. Prerequisite: CHEM 3225.

CHEM 3515 Environmental Chemistry
A course designed to provide chemical and analytical applications within industrial and environmental settings. Advanced laboratory skills with emphasis on EPA methods will be stressed. Labs will include proper sampling techniques, sample handling and storage, and analysis of student-obtained field samples. Prerequisite: CHEM 3125.

CHEM 3950 Special Topics in Chemistry
Focus of the course is an approved area of chemistry to be determined by faculty for each semester offered. This course may be repeated for credit. (1-4 hours).

Communications

COMM 1003 Introduction to Mass Communication
An introductory survey of the role of mass media in modern society with particular emphasis on critical evaluation of the press, radio, and television. A study of the scope, history, growth, development, practices, ethics, and legal concerns of mass communication. Special attention is given to radio and television, FCC, federal regulatory agencies, and station/network operations. (Formerly BRDC 1003)

COMM 1011 TV Studio Production
Introduction to the basic principles, procedures, and techniques of television production. Operation of studio equipment, including switcher, audio, lights, cameras, graphics, generator, video server and teleprompter.

COMM 1123 Interpersonal Communications
Study of the theories and practices necessary to develop interpersonal communication skills in both personal and professional relationships, with emphasis on improving verbal and nonverbal techniques for developing and maintaining clear communication between two people. (Formerly SPCH 1123)

COMM 1713 Voice and Articulation
Basic investigation of the structure and function of the vocal apparatus. Analysis of sounds (phonemes) of the English language through the study of the International Phonetic Alphabet. Emphasis on improving vocal sound, articulation, and pronunciation through various techniques and exercises. (Formerly SPCH 1713)

COMM 2003 Video Production
An overview of cameras, recording, editing, audio for television, lighting, electronic graphics, and studio production control will be provided. Skills will be developed in all areas of television production and related concepts. Prerequisite: COMM 1003. (Formerly BRDC 1213)

COMM 2013 Audio Production
Practical applications are required in the study of audio production within the University’s radio station. Student will develop audio production skills both in pre-production and live announcing studios. Prerequisite: COMM 1003. (Formerly BRDC 1223)

COMM 2243 Public Speaking
Analysis and practice in the composition and delivery of speeches with various purposes in diverse settings, including examination of rhetorical criteria for evaluation of content and presentation. Study of celebrated speeches and speakers. Prerequisite: SPCH 1113. (Formerly SPCH 2243)

COMM (HUM) 2413 Theatre Appreciation
A survey and analysis of theatre history, literature, and practices relating to the theatre as a social force. This course explores the fundamentals of understanding and enjoying theatrical performances through an examination of dramatic forms, theatre development, and theatrical artistic elements.

COMM 2433 Stagecraft
Basics of stage craft including introduction to technical skills and techniques to mount theatrical productions, scenery construction and painting, basic stage lighting, theatre architecture, and stage elements. Creation of set and technical elements for a theatre program production is included. (Formerly DRAM 1213)

COMM 2523 Acting
Designed to acquaint the beginning actor with the fundamentals of acting. This course explores the physical, vocal, emotional, and technical aspects of the actor’s craft. The student will learn a basic approach to scene and character study through exercises, scene work, and theatre games.
COMM 2703 Radio/Television Announcing
The interpretation of radio and television copy, including news, feature scripts, sports, and commercials. Special emphasis on helping students develop their voice and presentation. Prerequisite: COMM 2013. (Formerly BRDC 1023)

COMM 2723 Small Group Discussion
Study of effective communication techniques and procedures in problem-solving groups, with special emphasis on group roles, norms, and skills. Analysis of various leadership styles and techniques in group communication settings. Prerequisite: SPC 1113. (Formerly SPCH 2723)

COMM 2801 Audio Practicum
Field experiences providing learning through participation in tasks in an audio/radio facility. Prerequisite: instructor’s permission.

COMM 2811 Video Practicum
Field experiences providing learning through participation in tasks in a video/television facility. Prerequisites: COMM 2801 and instructor’s permission. (Formerly BRDC 2503 and BRDC 2513)

COMM 2821 Mass Media Practicum
Field experiences providing learning through participation in tasks in either video or audio facilities. Placements are arranged to perform tasks that are at a higher level of skill and responsibility than those performed in COMM 2801 or COMM 2811. Prerequisites: COMM 2811 and instructor’s permission.

COMM 3023 Writing for the Media
Thorough study of short-form and long-form media writing, story development, and coverage of all forms of media writing and journalism. Prerequisite: COMM 1003. (Formerly BRDC 2103)

COMM 3033 Corporate Media Production
This course will develop media materials from corporate videos, public relations campaigns, annual reports, and marketing materials. Students will critique materials, engage in proposal preparation and preproduction activities, and produce selected products as appropriate. Prerequisite: COMM 1003.

COMM 3113 Public Relations Strategies
A learning and portfolio intensive class that contains an in-depth examination of the function and practice of public relations campaigns. Emphasis is on public opinion and mass media, and their direct application to public relations campaigns. The student will document the development of a large-scale public relations campaign. Prerequisite: COMM 1003.

COMM 3173 News Reporting
An examination of styles and techniques of television and radio news reporting and research with a major focus on writing skills. Emphasis is placed on research, development, composition, and presentation of radio/television news stories. Prerequisites: COMM 1003 and COMM 3023. (Formerly BRDC 2173)

COMM 3233 Media Sales and Advertising
This course covers the techniques of selling a variety of media with special focus on radio and television advertising, including discussions of media coverage and circulation, use of spot advertising, media mix, and varied techniques for assessing and promoting effectiveness. Prerequisite: COMM 1003.

COMM 3253 Argumentation and Persuasion
Study of the rhetorical and psychological theories used in discourse to effect change in attitude, belief, and policy and to construct valid and compelling arguments, with applications in policy making, legal decision making, and personal inquiry. Fundamentals of argumentation, historical and current, are explored. Prerequisite: SPC 1113. (Formerly SPCH 3253)

COMM 3413 Media Law
Includes media-related U.S. Supreme Court decisions, historical decisions, changes in communication laws, and FCC regulatory revisions. Prerequisite: COMM 1003. (Formerly BRDC/COMM 2293)

COMM 3613 Mass Media Communication
Analysis of the theories and effects of the mass communication process. Includes examination of examples and effects of the media as related to our political system, children’s programming, judicial system, talk shows, advertising, and new technologies. (Formerly BRDC 3613)

COMM 3713 Communication Research Methods
Introduction to quantitative and qualitative techniques applied to subjects such as media and cultural studies, argumentation, public relations, and organizational and group communication. Emphasizes techniques of research design, instrumentation, data collection/analysis, reporting, and critical evaluation. Prerequisite: COMM 1003.

COMM 3753 Advanced Broadcast Practicum
Advanced field experience providing learning through participation in a broadcast facility with an emphasis in both the practical and ethical responsibilities in producing a televised message. May be repeated once. Prerequisite: COMM 2003. (Formerly COMM 3750)

COMM 3833 Communications Theory
Survey of communications theory in interpersonal, mass media, and organizational contexts.

COMM 3853 Sports Broadcasting
Examines and applies journalistic and performance techniques to reporting sports in broadcasting outlets. Areas of coverage will include play-by-play, color commentary, production, and other elements to create a successful broadcast. May be repeated for up to 6 hours. Prerequisite: COMM 2013.

COMM 3883 New Media and Society
An examination of new media communication and the emergence of digital technologies in social and cultural contexts. Prerequisite or corequisite: COMM 1003.
COMM 4103 Directing
Introduction to fundamentals of directing principles; theoretical and practical skills directors use to mount theatrical productions; use of movement, space, composition, and focus to communicate idea; character and thought; and practical skills of casting, scheduling rehearsals, selecting material, and working with other theatre artists. Prerequisite: COMM 2413.

COMM 4153 Nonverbal Communication
Study of the research on nonverbal behavior, with emphasis on variations and effects in various roles, cultures, social groups, and settings. Prerequisites: SPCH 1113 and COMM 1123. (Formerly SPCH 4153)

COMM 4163 Global Communication
Analysis of major global communication theories and research of the evolving communication systems and practices in different nations. Special emphasis on cultural, economic, political, legal, and technological impacts of information communication media. This course will also involve training for foreign assignments. Prerequisite: COMM 1003. (Formerly SPCH 4163)

COMM 4203 Media Management
Legal, social, management, and programming aspects of print media, and radio-television-cable management. Prerequisites: 18 credit hours of COMM courses and senior standing.

COMM 4223 Communication in Organizations
Study of communication in complex human organizations. Course relates communication to values, leadership, and uses of power in such organizational contexts as media business and professional, social, educational, and political groups. Prerequisite: COMM 1003.

COMM 4253 Broadcast Internship
Field experience at a professional broadcast site with an emphasis in both the practical and ethical responsibilities in producing a mass media message. Students are required to document internship activities. Prerequisites: Junior standing and instructor’s permission.

COMM 4283 Corporate Communication Internship
In-depth practical field experience at a corporate communication division within a corporation, public relations firm, or advertising agency. Designed for junior or senior students. Students are required to document internship activities. Prerequisites: Junior standing and/or instructor’s permission.

COMM 4323 Women and Minorities in Media
Survey of past and present relationships between women and racial and ethnic minorities in the U.S. and the media. Media portrayal, employment, ownership, and access will be studied.

COMM 4513 Script Writing
Students will learn the basic craft of script writing and creating an environment that encourages the writer’s exploration of their individual voice. Prerequisite: ENGL 2023.

COMM 4623 Documentary Production
Writing, research, video photography, video editing, aesthetics, and analyses for longer-form video productions and documentaries. Field work required. Prerequisite: COMM 3753 or instructor’s permission.

COMM 4913 Senior Capstone
Specialized projects emphasizing the student’s cumulative academic experience. Will include portfolio preparation, exams, and oral reports. Senior status required in Communications.

Community Counseling

CC 1213 Intervention Strategies
Examination of intervention strategies appropriate to working with individuals and their families. The focus will be on the problem identification, crisis intervention strategies, and therapeutic settings in the helping profession. (Formerly CA 1213)

CC 2223 Chemical Abuse in Special Populations
The course examines the relationship between certain subcultures and specific types of chemical abuse, theories of substance abuse/addiction, therapeutic modalities, and substance abuse treatment settings. (Formerly CA 2223)

CC 3013 Multicultural Counseling
The understanding of cross cultural helping relationships and the integration of effective counseling skills with diverse populations, including the study of cultural patterns, communication, and perspectives. The student will develop knowledge of cultural influences that impact the helping relationship.

CC 3023 Community Counseling Theory and Practice
An introduction to the counseling profession, including the study of theoretical foundations, therapeutic practices, and ethical standards and guidelines in helping relationships. The primary objective of this course is to increase the student's knowledge and skill concerning the methods and techniques in counseling.

CC 3213 Group Dynamics
This course will focus on current topics in group dynamics. Students will explore group dynamics and theoretical foundations of group work. Students will also acquire the necessary skills to facilitate groups that focus on effective communication, relationship development and problem resolution.

CC 4013 Psychological Testing
The critical study of tests and measurements, and their administration and usage in human service settings. The student will acquire the necessary knowledge and skills to administer, score, and interpret instruments used in counseling settings.

CC 4513 Research and Evaluation in Counseling Senior Seminar: Capstone Experience
All graduating seniors are required to take a semester-long, three-credit seminar in which they conduct research on some issue related to a human service setting. This experience is designed to help them learn how to investigate, analyze, and synthesize information about practical, behavioral, and societal issues using skills developed through their program and apply their information to the human service field. Developing written and oral presentations about their research enhances students' ability to communicate and enter into dialogue with others about such issues. Prerequisite: SBS 3013.
Computer-Aided Design Technology

CAD 2114 Computer Graphics I
A study of a real-time graphics computer system as related to processor and graphics-related peripherals. Included is the study and application of graphics language.

Computer Science

CS 1113 Microcomputer Applications
This course is designed for those who intend to be computer users rather than programmers. Successful completion of this course will satisfy the computer literacy requirement. Students will learn how to use the Internet, email, the Windows Operating System, a word processor, a spreadsheet, database management, and a presentation package.

CS 1123 Word Processing I
The class is designed for the beginning word processing student and will cover creating, revising, printing, formatting, moving, multiple page documents, repetitive documents, and spell check, plus using the thesaurus and creating reports. Touchtyping is required. (Formerly CS 2413)

CS 1133 Excel
This course is a full semester course covering the world’s number one personal computer spreadsheet. Topics in the course include Excel menus; formatting, filling, and manipulating Excel spreadsheet cells; Excel formulas; and Excel Macros. Prerequisite: CS 1113. (Formerly CS 2913)

CS 1163 Access
This is a full semester course covering the world’s number one personal computer database management system. Topics in the course include data formatting and entry in Access table fields, manipulation of data within and across tables, and Access interfaces to external systems. (Formerly CS 2423)

CS 1213 Introduction to Computing
Introduction to programming logic, analysis of problems, language-independent program design, and algorithms. Corequisite: IT 1411 or equivalent.

CS 1413 Introduction to Game Development
The design and implementation of a video game using a game engine. Basics of 3D graphics including perspectives, field of view, animations, lighting and interactivity.

CS 2163 Web Site Design and Development
This course will cover how to create Web pages using popular site development software and current Web site development language(s). Topics include building, formatting, and enhancing pages; adding graphics, advanced graphics, and multimedia; creating and updating forms; creating tables and frames; and managing the structure and design of Web pages. Prerequisite: CS 1113.

CS 2213 Visual Basic
Introduction to the computer language Visual Basic. Students will learn to write, compile, debug, execute, and test Visual Basic programs. Prerequisite: CS 1213 or instructor’s permission.

CS 2223 Programming I
Structured programming, operators, variables, loops, decisions, functions, pointers, input/output, data types, structures, and file operations will be treated using a popular programming language. Beginning object-oriented programming topics may also be covered. Prerequisite: CS 1213 or instructor’s permission.

CS 2293 Java Programming
This course will cover Java, a standardized and highly portable object-oriented computer language including features supporting use in computer applications systems development generally and client-server distributed system development specifically. Additionally, Java features support for Web site development, parallel processing (threads), automatic memory allocation, deallocation, and specific exclusion of pointers. Prerequisite: C programming knowledge.

CS 2323 Programming II
Advanced skills in solving problems such as sorting algorithms, list processing, recursion, and code management. Prerequisite: CS 2223 or equivalent.

CS 2553 3D Modeling
Introduction to 3D computer modeling. The creation of original 3D objects and textures using package programs. Prerequisite: ART 1103.

CS 2970 Special Topics in Computer Science
A study of applied problems in computer science. Designed to allow students the opportunity to study special topics. (1-4 credit hours.) (Formerly CS 2190)

CS 3213 Multimedia Development
The following topics may be included: image manipulation, animation, audio and video creation, and streaming media technologies. Prerequisite: CS 1113.

CS 3223 Data Modeling
This course provides a strong background in relational databases and introduces fundamental database and application development concepts and techniques. Prerequisite: CS 2323.

CS 3333 Object-Oriented Technology
An object-oriented (OO) computer language will be covered in the implementation of applications involving complex data structures. Topics include classes, objects, encapsulation, inheritance, polymorphism, and virtual functions. Prerequisite: CS 2323.

CS 3343 Mobile Application Development
Introduction to coding for smart phones and tablets. Topics include mobile user interface design, networking, and database connectivity. Prerequisite: CS 2323.

CS 3363 Data Structures
The analysis and implementation of standard data structures such as trees, queues, linked lists, and graphs. Prerequisite: CS 2323.

CS 3413 Systems Analysis
Covers the concepts, skills, methodologies, techniques, tools, and perspectives essential for systems analysis to successfully develop information systems. Prerequisite: CS 2323 or equivalent programming experience.
CS 3423 Software Engineering
Software systems projects are completed by students using CASE (computer aided software engineering) tools, based on a standardized computer software modeling language and automatically generated computer code in a computer language of choice. Prerequisite: CS 3413.

CS (MATH) 3433 Discrete Mathematics
Logic; set theory; order; algorithms; mathematical proof including induction, recursive functions, and recursive algorithms; and combinatorics. Prerequisites: MATH 2264 and CS 2223.

CS 3553 3D Character Rigging and Animation
This is an advanced course that explores the tools and techniques used to rig and animate 3D characters. Projects will also include the modeling of living beings. Prerequisite: CS 2553.

CS 3523 Distributed Systems Development
Study of distributed application development and database management in a client-server environment. Prerequisites: CS 2323 and IT 3153.

CS 3573 Operating Systems
This course covers computer operating systems theory, including consideration of what an operating system is, how it is designed and constructed, and how it operates internally. Aspects of operating systems covered include process management, memory management, I/O systems, distributed systems, and protection and security. Prerequisite: IT 3723.

CS 3623 Human-Computer Interface Development
An exploration of GUI (Graphical User Interface) development and human-computer interaction using a popular RAD [Rapid Application Development (software development)] tool. Prerequisite: CS 2323 or equivalent programming experience.

CS 3733 Computer Graphics Programming
Programming of two- and three-dimensional transformations, curves, hidden surface removal, illumination, and color models. Prerequisites: Math 3523 and CS 2323.

CS 3753 Introduction to Modeling and Simulation
Fundamentals and principles of simulation modeling. Systems dynamics modeling, stochastic modeling, discrete event simulation, Monte Carlo method. Applications of modeling and simulation in interdisciplinary fields. Prerequisite: BADM 2843.

CS 3813 Game Programming I
An introduction to game programming focusing on the use of game engines and hardware interactions for input and output. Prerequisites: CS 3363.

CS 3823 Game Programming II
Intermediate game development. Topics are networked games, sound manipulation, and advanced 3D programming. Prerequisite: CS 3813, CS 3733.

CS 4403 Games Development Seminar
Advanced topics in game design, software project management, and the game industry. Prerequisite: CS 3823.

CS 4503 Capstone
The implementation and testing of a large-scale game in a team environment. Prerequisite: CS 4403.

CS 4523 Advanced Web Systems Development
This course explores electronic commerce and applications of Internet technology. Topics include electronic data interchange, the Internet and the World Wide Web, and intranets – all with a primary emphasis on business and commercial applications. Study of Web site programming including such languages as XML, Java script, VB script, and CGI, and using such tools as Microsoft’s Interdev. Prerequisites: CS 2163 and CS 3333.

Cooperative Work Experience

COED 1120 Introduction to Work Experience
Student position matching will be arranged so the experience is a progressive and planned part of the total educational program of the student. This includes interviewing techniques, setting career goals and objectives, preparing a resume, and tips on obtaining and keeping a job. Supervision and evaluation is by the employer and a faculty member from the student’s major or a closely related field. One to four credit hours each semester, not to exceed eight hours total.

COED 1123 Intern
On-the-job training as an intern.

COED 2110 Advanced Work Experience
Integrates the learning that takes place in the classroom with the work experience. Students may use the cooperative education experience as a part of a career development process. This class is designed to assist the student, the employer, and the coordinator in evaluating the cooperative work experience. (1–4 credit hours each semester, not to exceed eight hours total.)

Criminal Justice

CJ 1113 Introduction to Criminal Justice
An introduction to the primary components of the criminal justice system - law enforcement, the court system, and corrections - and their general operating processes and responsibilities; the legal, social, and ethical issues influencing criminal justice; and the availability of criminal case file information to the public.

CJ 1213 Introduction to Corrections
A survey of corrections including a review of the history and development of the system; roles and functions of participants; and prevention, treatment, and supervision programs for offenders.

CJ 2013 Criminal Law I
The study of criminal law including the classification of criminal offenses, elements of crimes, ranges of punishment, and basic defenses to criminal charges. Prerequisite: CJ 1113.

CJ 2150 Criminal Justice Seminar
The study of law enforcement procedures, problems, and topics. May be repeated for a total of 12 credit hours. (1-4 credit hours.)

CJ 2343 Community Relations
An examination of the relationship between law enforcement and the community, including programs in community policing, human relations, and crime prevention. The course will examine ethics, conflict resolution, cultural diversity, and professionalism.

CJ 2533 Patrol Techniques Seminar
The role, responsibilities, and duties of a local police patrol officer; an examination of the police patrol function; and crime prevention and suppression methods.
CJ 2553 Traffic Administration and Investigation
A study of traffic enforcement, education, and engineering; traffic accident investigation, analysis, and reconstruction; and traffic enforcement methods and techniques.

CJ 2563 CLEET I
A practicum of proprietary law enforcement concepts, skills, and techniques for community relations, patrol, CPR, and first aid. Prerequisite: CJ 2013, completion of at least one-half of the General Education requirements (21 hours), acceptance into the CLEET Collegiate Officer Program, and COP Director's permission.

CJ 2711 CLEET Firearms
The Council on Law Enforcement Education and Training basic police firearms training course. Restricted to Collegiate Officer Program students. Prerequisite: COP Director's permission. (Formerly CS 2712)

CJ 2721 CLEET Custody and Control
The Council on Law Enforcement Education and Training basic police custody and control training course. Restricted to Collegiate Officer Program students. Prerequisite: COP Director's permission.

CJ 2731 CLEET Law Enforcement Vehicle Operation
The Council on Law Enforcement Education and Training for basic police law enforcement vehicle operation training course. Restricted to Collegiate Officer Program students. Prerequisite: COP Director's permission.

CJ 3003 Criminalistics
The fundamentals of criminal investigations encompassing the search, recognition, collection, transportation, and presentation of physical evidence in criminal proceedings and the evidentiary rules governing admissibility during criminal legal proceedings. Prerequisite: CJ 2013.

CJ 3013 Criminal Procedures
An analysis of the constitutional protections most frequently implicated by routine police conduct; the primary United States Supreme Court decisions interpreting the constitutional validity of police action with special emphasis on arrest, search and seizure, right to counsel, consent, and out-of-court identification; and the Federal statutes imposing civil liability of police and correctional officers for unconstitutional conduct. Prerequisite: CJ 2013. (Formerly CJ 2133)

CJ 3023 Communications for Justice Professionals
Development of advanced communication skills, both written and oral, with emphasis on writing forms used by justice professionals. Formats will include investigative reports, affidavits for search & arrest warrants, and the development of strategic plans. Prerequisites: ENGL 1213 and ENGL 2333 or SPCH 1113. (Formerly CJ 3024)

CJ 3113 CLEET II
A practicum of proprietary law enforcement concepts, skills, and techniques for advanced patrol and traffic administration. Prerequisites: CJ 2563, CJ 3013, good standing in COP Option, and COP Director's permission.

CJ 3213 Criminal Law II
A study of the legal foundations of selected topics that impact many professions including criminal justice, social sciences, medical, and education. Emphasis includes domestic violence, child abuse and neglect, emergency intervention, legal jurisdiction of law enforcement officers, legal rights of crime victims and consular notification by undocumented aliens. Prerequisite: CJ 2013. (Formerly CJ 2023)

CJ (POLS) 3243 Ethics in Public Service
This course investigates the distinctive ethical dilemmas that face leaders whose work will likely impact the public at large. Case, studies, ethical concepts, and terminology are introduced in an effort to seriously analyze the practical application of ethical practices in the public sector. Prerequisite: POLS 1113.

CJ 3313 American Court System
A general perspective of the legal system and judicial branch of government; introducing legal terminology, survey of practices, and ethics of legal professionals. Prerequisites: CJ 1113 and POLS 1113. (Formerly POLS 3113 and cross-listed with LA 3113)

CJ 3523 Interview and Interrogation
Interviewing skills and techniques of witnesses, informants, and suspects. Communications skills developed to include the interrogation process with emphasis on voluntariness of admissions and confessions within the legal parameters of the Fifth and Sixth Amendments. Documenting the interview and interrogation exchange also included. Prerequisite: CJ 2013. (Formerly CJ 2523)

CJ 3950 Special Topics in Criminal Justice
A seminar in selected topics in criminal justice. Topics and credits may vary each term course is offered (1-3 credit hours). May be repeated with changes of topic. Prerequisites: CJ 2013 and CJ 1213.

CJ 4613 Criminal Justice Internship
Opportunity to interact with criminal justice professionals within a work environment. Students experience the connection between criminal justice theory and practice, particularly the time constraints, interactive dynamics, and magnitude of decisions that are routinely made within the criminal justice paradigm by federal, state, and local law enforcement; institutional and community-based corrections, juvenile facilities, and other social service facilities. Prerequisites: CJ 3013, CJ 3023, and CJ (POLS) 3243. (Formerly CJ 2140)

CJ (POLS) 4993 Policy and Program Evaluation
This is a senior-level course in which students will apply knowledge they’ve gained in other courses in their major to develop and execute an evaluation plan. Along the way, students will learn how to interpret and apply various quantitative and qualitative research methods, measurement and data collection techniques, theoretical and practical applications, relevant literature, and cultural and ethical considerations. Prerequisite: ORGL 3333. (Formerly POLS 3503)
Economics

ECON 2113 Principles of Macroeconomics
A study of economy-wide resource allocation choices and macroeconomic policies that affect unemployment, inflation, national income, and economic growth.

ECON 2123 Principles of Microeconomics
The development and application of price theory to the resource allocation decisions of individuals and market participants.

ECON 2190 Seminar in Economics
Designed to apply economic theory to real-world situations. Prerequisites: ECON 2113 and ECON 2123. (1–4 credit hours.)

ECON 3003 International Economic Issues and Policies
A survey of global economic issues and policies that are related to international trade and finance.

ECON 4213 Environmental Economics
The economics of environmental studies in both developed and developing countries. Prerequisite: ECON 2113.

ECON 4413 Comparative Economic Systems
The economics of socialism and capitalism, major world trading blocs, and developing countries and those in transition. Prerequisites: ECON 2113 and ECON 2123. (Formerly ECON 3413)

ECON 5123 Managerial Economics
Economic principles to solve practical problems faced by decision makers in the modern business environment. Assists managers in strategic and tactical problem solving.

ECON 5233 Comparative Economic Systems
Economics of Socialism and Capitalism, major world trading blocs, developing countries, and those in transition.

Emergency Medical Services

EMS 1003 Anatomy and Physiology for Pre-hospital Providers
A beginning course for pre-hospital providers presenting human body structures and function. Prerequisite: Admission to the EMS Program.

EMS 1053 First Responder
A study of basic life support and emergency care to minimize further patient injury until the arrival of pre-hospital care providers. (Formerly PMT 1053)

EMS 1103 Introduction to EMS and Patient Assessment
A study of the emergency medical service system and patient assessment. Content includes EMS systems/roles and responsibilities of the paramedic, well-being of the paramedic, medical/legal issues, ethics, therapeutic assessment, communications, and documentation. Laboratory included. Prerequisite: BIOL 2215.

EMS 1108 Basic Emergency Medical Technology
A study of the role of the EMT, including CPR, triage, patient assessment, treatment of shock, hemorrhage, unconscious patient, fractures, traumatic injuries, medical emergencies, and light extraction. Field and hospital practicums are integral parts of the course. (Formerly PMT 1108)

EMS 1113 Pharmacology for Pre-Hospital Providers
A study of pathophysiology and emergency pharmacology, including actions of drugs on body systems and nervous system effects. Laboratory included. Prerequisite: EMS 1003.

EMS 1124 Advanced Skills in Emergency Medical Services
A study of adult and pediatric medication administration, venous access techniques, and airway management and ventilation skills. Laboratory and clinical practicum included. Prerequisite: EMS 1003.

EMS 1141 Emergency Vehicle Operators Course
This course presents the safe practices and operation of an emergency vehicle within a variety of situations. Human aspects, acquired abilities, physical forces, and state laws regarding safe vehicle operations are discussed. Vehicle performance on a driving course is an integral part of this course. (Formerly PMT 1141)

EMS 1203 Field Operations
A study of EMS field operations, including medical incident command, ambulance operations, rescue operations, hazardous material incidents, and crime scene awareness. Laboratory included. Prerequisite: EMS 1124.

EMS 1208 Intermediate Emergency Medical Technology
A study of patient treatment including IV fluid therapy, intubation, and advanced airway care. Advanced patient assessment and shock management also included. Field and hospital practicums are integral parts of this course. Prerequisite: EMS 1108. (Formerly PMT 1208)

EMS 1213 ECG Interpretation
A study of the conduction system of the heart. Recognition of common non-lethal and lethal cardiac dysrhythmias and ECG performance and interpretation. Laboratory included. Prerequisite: Admission to the EMS program.

EMS 1225 Trauma Assessment and Management
A study of trauma assessment and management emphasizing trauma systems, hemorrhage, and shock; soft tissue trauma; burns; trauma to the head and face, spine, thorax, abdomen, and musculoskeletal system. A Pre-Hospital Trauma Life Support (PHTLS) course is included. Laboratory and clinical practicum included. Prerequisite: EMS 1124.

EMS 2104 Medical Emergencies
A study of the assessment and management of neurology, endocrinology, allergies and anaphylaxis, gastroenterology, renal/urology, toxicology, hematology, environmental conditions, infectious and communicable diseases, behavioral and psychiatric disorders. Laboratory included. Prerequisite: EMS 1225.

EMS 2112 Special Needs in Emergency Medical Services
A study of geriatrics, abuse and assault, patients with special challenges, and acute interventions for chronic care patients. Assessment-based management of a variety of common complaints is also discussed. Laboratory included. Prerequisite: EMS 1225.
EMS 2115 Special Patient Populations
A study of geriatrics, abuse and assault, patients with special challenges and acute interventions for chronic care patients; a study of the assessment and management of neonatal and pediatric emergencies common in emergency medical services. A Pediatric Advanced Life Support (PALS) course is included. Assessment based management of a variety of common complaints is also discussed. Laboratory and clinical practicum included. Prerequisite: EMS 1203, EMS 1213, EMS 1225.

EMS 2125 Cardiac/Respiratory Emergencies
A study of assessment and management of respiratory and cardiac-related emergencies. An Advanced Cardiac Life Support (ACLS) course is included. Laboratory and clinical practicum included. Prerequisite: EMS 1225.

EMS 2202 OB/GYN Emergencies
A study of assessment and management of obstetrical and gynecological emergencies common in emergency medical services. Laboratory included. Prerequisite: EMS 2125.

EMS 2213 Physician Internship
Supervised internship with the program Medical Director or their designee. This clinical experience is designed to allow the Medical Director to evaluate the ability of the paramedic student to think critically and to make sound clinical judgments. Field Experience Required, Permission Required.

EMS 2221 Public Health Principles
This course applies fundamental knowledge of principles of public health and epidemiology including public health emergencies, health promotion, and illness and injury prevention. Permission Required.

EMS 2224 Pediatric Emergencies
A study of assessment and management of neonatal and pediatric emergencies common in emergency medical services. A Pediatric Advanced Life Support (PALS) course is included. Laboratory and clinical practicum included. Prerequisite: EMS 2125.

EMS 2241 EMS Leadership
A study of the management processes and leadership styles of leaders in Emergency Medical Services with an emphasis on the necessary components in the development of an EMS service. A portion of the course will focus on preparing the student to successfully complete the National Registry of EMT’s practical skills exam. This serves as the Capstone course for the EMS degree program.

EMS 2245 EMS Internship
This clinical practicum experience is designed to give the paramedic student supervised field experience under the direction of a licensed paramedic. The student will be expected to perform paramedic level skills and exhibit entry level paramedic decision-making abilities in the prehospital setting. Field Experience Required. Permission Required.

Engineering
ENGR 1411 Engineering Orientation
Lectures on engineering as a profession, electronic calculators, statistical presentation of data, graphical analysis, and engineering problem solving. Recommended for all pre-engineering and engineering technician majors.

ENGR 3950 Special Topics in Engineering
Focus of the course is an approved area of engineering to be determined by faculty for each semester offered. The course may be repeated for credit. (1-4 credit hours).

English
ENGL 0003 Basic Writing I
This course is for students who need to review basic grammar rules and mechanics. Included within this course is intensive instruction in grammar, mechanics, and paragraph structure. The course also provides instruction in essay writing, editing, and proofreading. This course does not apply toward total credit hours for graduation.

ENGL 1001 Essay Writing
This course is designed to enhance/improve students’ writing abilities leading to a successful college experience. Essay Writing will include development of the structure of an essay and presentation of material in an academic format.

ENGL 1113 Composition I
Required of all students. This course prepares students for college-level writing. Essay organization, development, and style, as well as critical thinking skills will be emphasized.

Note: Placement standards may require students to take one or more preparatory courses before being admitted to ENGL 1113.

ENGL 1213 Composition II
Basic requirement for graduation. A continuation of the writing experiences begun in Composition I. Writing experiences are concurrent with thematic material, including imaginative literature and writing across the curriculum. Incorporation of research techniques leading to production of research papers. Prerequisite: ENGL 1113.

ENGL 2023 Creative Writing
This course will focus on writing poetry and fiction. Students will be encouraged to discuss their writing in this workshop. Prerequisite: ENGL 1113 or instructor’s permission.

ENGL 2313 World Literature to 1600
A survey of significant world literature from the beginning of the written word to 1600, as evidenced in fiction, drama, essays, and poetry. Includes a study of various literary genres and conventions, research techniques, critical writing exercises, and discussion.

ENGL 2333 Technical Writing
Introduction to technical writing, focusing on forms of applied writing in each student’s area of specialization. Prerequisite: ENGL 1113.

ENGL 2543 British Literature to 1700
A survey of British Literature from the origins of language to 1700.

ENGL 2613 Introduction to Literature
Introduction of various genres of prose (fiction, drama/film) and poetry. Includes literary terms, verse, image, and language of poetry. Also includes research techniques, critical writing exercises, and discussion. Humanities elective.
ENGL 2653 British Literature from 1700
A survey of British literature from 1700 to the present.

ENGL 2773 American Literature to 1865
A survey of American literature from its colonial beginning to approximately 1865.

ENGL 2883 American Literature from 1865
A survey of American literature from approximately 1865 to the present.

ENGL 2933 World Literature from 1600
A survey of world literature from 1600 to present, as evidenced in fiction, drama, essays, and poetry. Includes a study of various literary genres and conventions, research techniques, critical writing exercises, and discussion.

ENGL 3033 Creative Writing for the Popular Market
This course will examine the intrinsic creative elements of writing for entertainment, including, but not limited to, game design, genre writing, graphic novels, and storyboarding, in order to provide students with the crucial skills required for designing their own original games and stories for the mass market. Prerequisite: ENGL 1213. Highly recommended: ENGL 2023.

ENGL 3113 Advanced Technical Writing
In-depth study of technical writing required in business and science careers and in graduate schools. Focuses on forms of applied writing with required research in each student's area of specialization. Prerequisite: ENGL 1213.

ENGL 3123 Topics in Advanced Composition
Practice in writing with emphasis on style and strategies of composition. Focus varies: practice in various literary genres; study of rhetoric, practice in various modes; argumentative writing; advanced expository writing. Prerequisites: ENGL 1113 and ENGL 1213 or instructor's permission.

ENGL 3143 Creative Nonfiction
This course will focus on the "fourth genre" of writing: creative nonfiction. Students will read a variety of essays by published nonfiction writers, discuss and write about the varieties of rhetorical modes used in creative nonfiction, and compose a selection of essays through workshopping and revision. Prerequisite: ENGL 1213.

ENGL 3423 The Novel
Consideration of the work of major novelists. Course will be comparative and based on concepts to include theme and artistic expression.

ENGL 3443 Studies in Poetry
This course analyzes the elements, forms, and history of poetry written in and/or translated into English. The course will be comparative and historical, tracing developments in poetry from its beginnings to the present. Prerequisites: ENGL 1113 and ENGL 1213.

ENGL 3513 Literature for Children and Young Adults
Traditional and innovative literature for children, adolescents, and young adults in various genres. Prerequisites: ENGL 1213 and ENGL 2613.

ENGL 3950 Special Topics in English
Current topic in approved area of English study. Content will be determined by the instructor. Repeatable up to 6 hours. (1-6 credit hours.)

ENGL 4133 Fiction Writing
Intensive writing of short stories, with class attention to writing process, style, technique, revision, and contemporary developments in the genre. Prerequisite: ENGL 2023 or instructor's permission.

ENGL 4143 Poetry Writing
Intensive writing of poetry, with class attention to writing process, style, technique, revision, and contemporary developments in the genre. Prerequisite: ENGL 2023 or instructor’s permission.

ENGL 4223 Shakespeare
Analysis of a selection of Shakespeare’s tragedies, comedies, histories, sonnets, and other lyric poetry. Selected criticism, 1600 to the present. Historical background and Shakespeare’s theater.

ENGL 4343 Regional Literature
This course will focus on regional writers of fiction and/or non-fiction and may be repeated with a change of subject matter; maximum credit six hours. Initial focus on well known writers of the region as an introduction, then a broadened focus to include extensive study within a specific category or historical period, works by a single author or several authors within a genre, or special topics of regional interest.

ENGL 4453 Literary Traditions
Studies include, but are not limited to, world, British, and American literature approached thematically, regionally, historically, and generically.

ENGL 4513 English Grammar and Usage
Study of English grammar and usage and application to speaking and writing.

ENGL 4533 English Linguistics
A linguistic approach to the phonology, morphology, and syntax of the English language, with attention to semantics and the origin and development of the language.

ENGL 4710 Directed Studies
Intensive independent reading and research on a selected topic, writer, or movement in literature, criticism, research, or rhetoric. 1-3 credit hours. Open to students in a graduating semester.

Entrepreneurship

ENTR 3003 Social Entrepreneurship
Focuses upon the practical solutions to social problems. It combines the talents of individuals, families, communities, governments, businesses, religious institutions, and not-for-profits. Social entrepreneurship will be studied through its history, current issues in the field, and case studies.
**Course Descriptions**

**ENTR 3103 Fundraising, Events, and Major Gifts**
Everything about fundraising, major gift giving, and organizing special fundraising events.

**ENTR 3233 Marketing for the Entrepreneur**
Identifies and applies the different marketing visions, approaches, and practices used by entrepreneurs to compete in highly competitive markets, identifying the differing strategic and tactical focuses and applications used by today’s entrepreneurs for the strategic application of various technologies. Prerequisite: MKTG 3113.

**ENTR 3303 Entrepreneurial Finance**
Focuses on the primary financial elements necessary in starting, growing, and harvesting a business, to include financial assessment of opportunity, marshaling resources, bootstrapping, creating the financial package cash flow, and sources of capital. Prerequisite: FINA 3503.

**ENTR 4013 New Venture Development**
Focuses on the early development of independent ventures as well as those within established organizations, addressing thought processes of entrepreneurs that challenge existing norms and pave the way for novel solutions to problems at both the individual and organizational levels. Prerequisite: MGMT 3013.

**ENTR 4323 Managing the Growing Business**
Teaches the students to anticipate the unique and specific problems that accompany starting and growing an entrepreneurial firm by creating value through innovation and opportunity capture rather than by merely the efficient management of ongoing operations. Prerequisite: MGMT 3013.

**Finance**

**FINA 3503 Principles of Finance**
An introductory course in financial management of capital in a business firm. Operational and strategic financial problems are covered including allocation of funds, asset management, financial information systems, financial structure, policy determination, and analysis of the financial environment. Prerequisite: ACCT 2203. (Formerly BMA 3503)

**FINA 5133 Financial Management**
Decision-making about the use of financial assets which include physical and human resources, cash, stocks, and corporate bonds. Applications in both profit making businesses and not for profit government agencies in terms of risks, returns, and potential for success in management of resources.

**Fitness Management**

**FTMT 2723 Care and Prevention of Athletic Injuries**
Basic instruction is given in the care, prevention, assessment and management of common athletic injuries and illnesses. Additional topics covered include legal issues and the overall role of a certified athletic trainer.

**FTMT 3733 Physiology of Exercise**
A general study of the bioenergetics of muscular work; neuromuscular structure, function and control; cardiopulmonary function and control; physical training; and nutrition and exercise performance.

**FTMT 4213 Methods of Strength and Conditioning**
This course is designed to increase the practical and theoretical understanding and knowledge of the physiological, biomedical and administrative aspects of designing and supervising strength and conditioning programs for various populations. Prerequisite: FTMT 3733.

**FTMT 4523 Exercise Testing and Prescription**
This course reviews the established link between fitness and health. Skills and concepts are taught that enable the learner to choose and perform appropriate physical assessments for the four primary areas of fitness and prescribe appropriate exercise regimens based on the results and knowledge of the needs of various populations. Prerequisite: FTMT 3733.

**General Studies**

**BGS 3003 Junior Seminar**
Introduction to the methods and application of research and composition. Students will develop research project proposals drawing on the areas of concentration selected for their Bachelor of General Studies programs.

**BGS 4003 Senior Seminar (Capstone)**
Completion of the research project proposed in BGS 3003. The final written project will consist of research, analysis, and argumentation targeted toward a specified audience. A presentation of the project is required. Prerequisite: BGS 3003.

**Geography**

**GEOG 1113 General Geography**
A general course in introductory geography concerned with natural and cultural features of the world’s landscape.

**GEOG 2123 World Regional Geography**
Principles of geography as applied to regions of the world, under-scoring the physical and human characteristics that make regions distinctive. Physical characteristics, economics and geopolitics, comparing and contrasting the world’s major regions, and current problems and crises as they impact the global community.

**GEOG 2243 Human Geography**
An introduction and general education course that emphasizes the interrelationship of the physical environment and human responses.

**GEOG 3023 Economic Geography**
Focuses on principles, patterns, and processes of the location, distribution and interaction of economic activities at scales ranging from the global to the local. It examines concepts and problems in economic geography, in the principal factors responsible for global differentiation including population, resources, and development, international trade, and theories of organization of economic space.
GEOG 3043 Environmental Geography
Explores complex relationships between human activities and environmental systems. It examines how socio-cultural, political and economic processes alter natural systems and how the environment supports or undermines human activities. Topics such as degraded ecosystems, pollution, climate change, and waste management are addressed. Issues are examined through a geographic lens underscoring location factors, spatial distribution and relationships, and multiple scales of analysis.

GEOG 3053 Military Geography
Explores the critical role that geography plays in warfare, and investigates the relationship between the physical and cultural environment in military planning and execution. Students will learn about the principles, elements, and concepts of military geography, identify and analyze the importance of culture and geography on the conduct of war, and the effects of warfare and military training activities on the physical environment. Prerequisite: GEOG 2243

GEOG 3950 Selected Topics in Human Geography
A systematic study of selected topics in human geography. May be used for up to nine credit hours if the content is different. Prerequisite: GEOG 2123 or GEOG 2243 or instructor’s permission.

GEOG 4023 Political Geography
This course focuses on the interaction of power and space and how power is inscribed in the landscape. It explores the basic methods by which people exert power and influence over others, the formation of political identities that support or undermine extant power structures, and territorial definition of polities such as national state, empire, sub-national region, and political contestation over territories, natural resources, and other valuable assets.

Geology

GEOL 1014 Earth Science
Study of the sciences related to Earth and our solar system—geology, meteorology, oceanography, and astronomy. Laboratory required.

GEOL 1114 Physical Geology
Geology of the physical Earth, materials of which it is made, the processes that act on these materials, and the products formed by the processes. Subjects of interest are examined in light of the plate tectonic theory: rocks and minerals, weathering and erosion, volcanoes, earthquakes, glaciers, streams, groundwater, and mountain building. Laboratory required.

GEOL 1124 Physical Geology
A course dealing with the study of Earth’s crust, oceans, soils, landscapes, weather, and climates. Laboratory required. (Formerly PHYS 1124)

GEOL 1224 Historical Geology
Study of the history of the physical Earth and the evolution of its life forms through geologic time-development of Earth’s major features by the process of plate tectonics. Laboratory required. Prerequisite: GEOL 1014 or GEOL 1114.

GEOL 2124 Astronomy
Study of the astronomical universe and the perspectives used by astronomers in scientific study of the cosmos, the planets, and the birth and death of galactic objects. Laboratory required. (Formerly PHYS 2003)

GEOL 3013 Environmental Geology
How social systems influence and are influenced by the Earth and its processes is the focus of this course. Subjects to be examined include hazard assessment (earthquake, volcanic, flood, tsunami, hurricane, and landslide) and snowpack monitoring as well as pollution and depletion issues. Prerequisites: GEOL 1014, GEOL 1114, or CHEM 1315.

GEOL 3950 Special Topics in Geology
Focus of the course is an approved area of geology to be determined by faculty for each semester offered. The course may be repeated for credit. (1-4 credit hours).

German

GERM 1113 Beginning German I
Grammar, phonetics, and simple readings in German.

GERM 1223 Beginning German II
Continued instruction in German grammar, phonetics, and readings. Prerequisite: GERM 1113.

Health, Physical Education, and Recreation

HPER 1031 Physical Education Activity
Individual and group activity for general physical improvement. Includes roller skating, weight training, conditioning, jogging, yoga, aerobics, tennis, badminton, figure control, lap swimming, beginning soccer, beginning archery, self defense, racquetball, and selected sports.

HPER 1032 Physical Education Activity
The personal approach to physical fitness designed to teach the principles of cardiovascular endurance, proper weight control, increased strength and flexibility, and ability to relax.

HPER 1581 Defensive Techniques
Fundamentals of self-defense.

Health Science

HLSC 1051 Blood Borne Pathogens and Hazard Communication
This course presents a summary of the OSHA blood borne pathogens and hazard communication standards; an introduction to chemical, physical properties and hazards; and precautionary strategies to prevent transmission of communicable diseases, particularly blood borne pathogens. Health hazards and safety procedures will be presented.
HIST 2113 Western Civilization I
Using an interdisciplinary approach that incorporates materials chiefly from history but also from philosophy, art, and music, this course will provide the student a firm grounding in the History of Europe from the Renaissance to the present.

HIST 2463 Seminar in the Civil War--The Daily Life of the Civil War Soldier I
A study of the Civil War as seen through the eyes of the soldiers who fought in it, detailing their lives from enlistment through training, campaigning, and camp life. Students will be required to join the Civil War Reenactment unit on campus (Company B, 15th Missouri Infantry) and learn about the subject matter by reliving it.

HIST 2473 Seminar in the Civil War--The Daily Life of the Civil War Soldier II
A continuation of HIST 2463. A study of the Civil War as seen through the eyes of the soldiers who fought in it, detailing their lives from enlistment through training, campaigning, and camp life. Students will be required to join the Civil War Reenactment unit on campus (Company B, 15th Missouri Infantry) and learn about the subject matter by reliving it.

HIST 2483 American History to 1877
From the peopling of the continent to 1877; European origins and colonization; revolution and the development of federalism, nationalism, and democracy; foreign relations; political parties; and Civil War and Reconstruction.

HIST 2493 American History since 1877
From 1877 to present. Post-reconstruction; industrialism; immigration; reform movements; race, gender, and ethnicity; cultural conflicts; the welfare state; and international relations.

HIST 3013 Modern Europe
Surveys the economic, social, political, and intellectual history of Europe from the European discovery of the New World to the present day. Emphasizes major developments of the period to include the Protestant Reformation, Absolutism, the Scientific and Industrial Revolutions, Napoleon Bonaparte, the World Wars, the Cold War, and the demise of the Soviet Union and the Eastern Bloc. Offered in alternate years.

HIST 3023 The Civil War: Seminal Event in American History
A study of the events that led up to the Civil War and the military, political, economic, cultural, and social aspects of the war.

HIST 3033 Modern East Asia
This course will provide a survey of the major cultures and nations of East Asia, and the principal historical themes of post-colonialism, conflict, and modernization that have characterized the history of the region in the modern era. Within this historical framework, this course will analyze the major cultural, political, and economic events of the modern age (1750-present) of the region.

HIST 3053 Famous Trials in American History
Investigations of major trials in which legal, cultural, social, and political issues intersect and received widespread attention.
HIST 3063 Oklahoma History
Oklahoma history from date of discovery to the present, including changes in sovereignty, development through each era, contribution of the Indian, formation of the state, and basic law. (Formerly HIST 2063)

HIST 3123 Introduction to Military History
A survey of the history of warfare from antiquity to the present with concentration on the evolving methods and theories of warfare as emerged in Europe and the United States; and in particular, how political, social, economic, and technological factors influenced the nature of warfare. Prerequisite: HIST 2483 or HIST 2493.

HIST 3213 Environmental History
The interactions people have had with the land, or the biophysical environment, over time. The course draws on work in ecology and other natural sciences, on cultural anthropology, sociology, and historical geography as well as many related fields of history, including agricultural and urban history and the history of science and technology.

HIST 3223 Interpreting United States History
A study of old and new interpretations of major events and topics in United States History from the colonial era to the present.

HIST 3243 Writing and Research for Historians
The purpose of this course is to teach history majors how to research and write within the discipline. Students will learn how to execute historical writing and research projects, employing a range of primary and secondary sources. Students will learn how professional historians past and present have approached their craft. Prerequisite: HIST 2483 or HIST 2493.

HIST (SOC) 3323 War and Society
The study of societies’ relationship with war, in particular: how warfare is viewed by different societies; why societies choose to wage war; how religion, culture, and literature affect society’s perspective of warfare, and the social consequences of waging war for winners and losers. Within the context of American society, this course will address the social impacts of various U.S. wars, and will take some time to explore the rise of the military-industrial complex and its effect on American society.

HIST 3343 World War II, The European Theater
Part of a six-hour block on WWII, this course examines the origins of the war, the nature of warfare in the mid-20th century, and the consequences of the war, focusing on the European theater. In dealing with the war’s origins, this course will explore the social and political circumstances that gave rise to the war in Europe, and explore the first several years of the post-war period in order to adequately explore the social, economic, and political consequences of the war.

HIST 3353 World War II, The Pacific Theater
Part of a six-hour block on WWII, this course examines the origins of the war, the nature of warfare in the mid-20th century, and the consequences of the war, focusing on the Pacific Theater. In dealing with the war’s origins, this course will explore the social and political circumstances that gave rise to the war in the Pacific.

HIST 3533 The Vietnam Conflict
An in-depth overview of Western and U.S. involvement in Indochina with emphasis on Vietnam. Content includes Vietnam’s two millennia struggle for independence from China, subsequent colonial domination by France, how the U.S. was drawn into the conflict, exploration of the political and military events that occurred from 1954-1975, contrasting strategies of U.S. and Vietnamese decision makers, the aftermath of the conflict, and the consequences for both Vietnam and the United States. Prerequisite: HIST 2493.

HIST 3613 War, Ethics and Religion
Explores various theories of applied ethics as they relate to the practice of warfare; in particular, students will explore the just war tradition within Christian theological tradition and examine various other ethical and religious traditions from a comparative perspective. Students will also be exposed to ethical dilemmas that are increasingly caused by the evolution of warfare: the use of air power and technological asymmetries, terrorism and counterinsurgency warfare, etc. In the process, students will learn how to think through ethical problems, and draw on religious thought to formulate responses to “hard questions.”

HIST 3653 War and Technology
This course explores the relationship between technology and warfare from antiquity to the present and considers the origins of weapons technology from a variety of social and political contexts. The complex relationship between technology, tactics, and strategy provides a useful narrative framework. A number of potential treatments (e.g., role of engineering, impact of the industrial revolution, the origins and consequences of total warfare, etc.) and course foci may be explored. Case studies will be used to illustrate the impact of technological innovations on warfare. Prerequisite: HIST 3123.

HIST 3950 Special Topics in Military History
This course will focus on specified topics related to military history that are not currently included in the existing course offering, and may be repeated with changes in topics. Course content will vary with changes in topic.

HIST 3993 Special Topics in History
This course will focus on topics in history not covered in existing course offerings and may be repeated with changes of topic. Content varies with topic.

HIST 4013 Nazi Germany
Examines the military, political, social, economic, and intellectual developments in Germany from World War I to the fall of Adolf Hitler and the National Socialist state in 1945. Course pays considerable attention to the creation and nature of Germany’s abortive experiment in democracy, the Weimar Republic, and the events leading to the establishment of the totalitarian state.

HIST 4033 Cultural Warfare: Major Controversies in US History
A study of clashes between social and cultural systems, including such topics as antebellum Northern and Southern societies, Darwinists and their opponents, and competing visions of religious and secular authority.
HIST 4043 Reformers and Liberators
Examination of major reform periods in nineteenth and twentieth-century America, including antebellum reform, Populism, Progressivism, New Deal, Great Society, Civil Rights, feminism, and sexual liberation movements.

HIST 4123 Revolutionary America 1763-1783
This course is a study of the development of friction between Great Britain and the American colonists, and an examination of various events leading up to the American Revolution. Military campaigns, political aspects, social aspects, and cultural issues relating to the war will also be studied. Prerequisite: HIST 2483.

HIST 4213 Colonial America, 1492-1763
A study of the political, economic, social, and cultural history of the colonies in North America from the earliest settlements through the French and Indian War. Prerequisite: HIST 2483.

HIST 4313 Readings in Military Leadership/Strategy
A study of military leadership and strategy from ancient times to the present through selected readings, concentrating on classics in military strategy (e.g. Sun Tzu, Clausewitz, Jomini, Hart, Guderian, etc.), and building on a foundation developed in HIST 3123. Prerequisite: HIST 3123.

HIST 4511 Military History Senior Capstone
Students prepare an essay on an assigned topic in military history, utilizing critical and analytical thinking skills, and complete objective examinations based on the BA-Military History core curriculum and GEOG 2243, HIST 2483, HIST 2493, HIST 2013, and HIST 2023. Prerequisites: HIST 3123, HIST 3613, HIST 3653, HIST (SOC) 3323, and HIST 4313.

Honors

HONS 1113 Freshman Honors Seminar
Orientation to the Rogers State University Honors Program. Emphasizes the fundamentals of critical thinking and research skills, and encourages students to explore Western cultural traditions of liberal arts education. Includes reading and research in the student’s particular academic field. Prerequisite: Enrollment in Honors Program.

HONS 1213 Honors Literature and Rhetoric I
Combines an introduction to the critical study of literature with practice in writing in various literary genres. Includes study of rhetoric, argumentative writing, and expository writing. Successful completion of this course fulfills the Composition I General Education requirement. Prerequisite: instructor's permission.

HONS 1313 Honors Literature and Rhetoric II
Continuation of the writing experiences and literary studies begun in Honors Literature and Rhetoric I. Writing experiences are congruent with thematic material. Incorporation of research techniques leading to production of Honors research papers. Successful completion of this course fulfills the Composition II General Education requirement. Prerequisites: HONS 1213 or instructor's permission.

HONS 2113 Sophomore Honors Seminar
Integration of sophomore honors and degree curriculum with independent reading and research. Presentation of research results. Service learning component possible. Prerequisite: HONS 1113.

HONS 3113 Junior Honors Seminar
Integration of junior honors and degree curriculum with independent reading and research. Students will present their progress in oral and written form, preparing for their capstone project. Prerequisites: HONS 2113 and junior status.

HONS 3123 Special Topics in Honors
An interdisciplinary study of a selected topic or theme. May be repeated for credit up to nine hours. Emphasis on the presentation of seminar papers. Prerequisite: Enrollment in the Honors Program.

HONS 3133 Honors Study-At-Large
Designed to foster honors study external to the region. May be repeated for credit up to six hours.

HONS 4113 Senior Honors Capstone
Integration of senior honors and degree curriculum with independent reading and research. Inception and actualization of original, specialized project, designed to investigate, analyze, and synthesize information in field of study, using skills developed in the program(s). Written and oral presentation. Project may be combined with capstone experience in degree program. Prerequisite: HONS 3113.

Humanities

HUM (ART) 1113 Art Appreciation
Illustrated lecture course surveying the role and dimension of art with a general examination of art theory, art media, and art history.

HUM 2113 Humanities I
A chronological survey of humanity through a cross-disciplinary study of humanity’s ideas, discoveries, and creative achievements from the pre-history through the medieval period.

HUM 2223 Humanities II
A chronological survey of humanity through a cross-disciplinary study of humanity’s ideas, discoveries, and creative achievements from the Renaissance through the modern period.

HUM (COMM) 2413 Theatre Appreciation
A survey and analysis of theatre history, literature, and practices relating to the theatre as a social force. This course explores the fundamentals of understanding and enjoying theatrical performances through an examination of dramatic forms, theatre development, and theatrical artistic elements.

HUM (MUSC) 2573 Music Appreciation
The course is designed to cultivate a broader listening and appreciative attitude toward music. Lectures with musical illustrations on important works of musical literature are included. Humanities elective.
HUM 2893 Cinema
Introduction to the basics of motion pictures, film theory, history, and appreciation.

HUM 3113 Studies in African-American Culture
A study of African-American culture and its role within the general cultural fabric of America, including an investigation of African-American history, literature, music, religion, visual arts, and other achievements.

HUM 3213 Studies in Hispanic Culture
Examines the cultural contributions of the various Spanish-speaking populations of the world, including an investigation of their history, literature, music, religion, visual arts, and other achievements.

HUM 3323 Gods and Heroes
Explores the mytho-religious tradition of ancient Greece and Rome from the original sources and meanings to their various interpretations in subsequent Western literature and fine art.

HUM 3423 Biblical Literature and Art
Explores selected books and episodes from both the Hebrew and Christian Bibles. Considers their original context and meanings and their various interpretations in subsequent Western literature and fine art.

HUM 3443 Theatre Traditions
Explores significant periods and/or developments regarding the purposes and the practices of theatre, from its ancient Greek origins to the present, toward developing a deeper understanding of theatre's cultural significance.

HUM 3543 Adaptation: Literature and Film
Explores selected works of literature and the adaptation of literature to film. Considers works of literature in their own right, the relationship between literature and film, the significance of adapting literature for the screen, the differences between films and their sources, the elements through which both literature and film elicit meaning, and the cultural relevance of these works.

HUM 3633 Comparative Religion
A comparative study of traditions, scriptures, theologies, major figures, and practices of world religions through an investigation of cross themes and contrasts.

HUM 3713 Sex, Love, and Friendship
An interdisciplinary, humanities-grounded approach to sex, love, and friendship, their relationships with one another, and related issues regarding each, through classic literary, philosophical, and religious readings, works of fine art and film, and selected contemporary sources.

HUM 3733 Death, Plague, and War
An interdisciplinary, humanities-grounded approach to issues of human suffering, inhumanity, and mortality, as well as humanity's recognition of, reflection on, and responses to these issues, through classic literary, philosophical, and religious readings, works of fine art and film, and selected contemporary sources.

HUM 3833 Studies-At-Large: The Americas
This course is designed to foster study external to the region. Its scope will be limited to locations within the American continents. May be repeated once for credit.

HUM 3950 Special Topics in Humanities
Current topic in approved area of Humanities study. Content will be determined by the instructor. Repeatable up to 6 hours. (1-6 credit hours.)

HUM 4003 Multimedia Communications
An aesthetic consideration of the most effective ways to integrate written/oral and visual language. Special attention will be paid to corporate communication issues and the public sector, film, television, print, performance, and visual communication, as well as movements in digital or cyber communications and other emerging technologies. (Formerly LSTD 4003)

HUM 4013 Capstone Project/Portfolio I
The Capstone Project/Portfolio is an original, specialized project, integrating the student’s cumulative academic experiences. Preparation for the Senior Project begins in the junior year with consultation with advisors. Prerequisite: senior status. (Formerly LSTD 4013)

HUM 4113 International Cinema
Intensive study and research on international cinema focusing on, but not limited to, a particular national cinema, director, genre, body of criticism, or historical time period. Prerequisite: HUM 2893 or equivalent.

HUM 4213 Will Rogers’ America
An interdisciplinary study and critical examination of the diverse and complex American culture between 1915 and 1935 as seen through the cultural artifacts of Will Rogers. Considers relevant issues such as socio-historical-political contexts and multicultural questions of the era.

HUM 4413 Women in Literary and Visual Arts
An interdisciplinary study of the literary and artistic productions of women in Western culture. Considers relevant issues including, but not limited to, gendered productions, socio-historical contexts, and critical theory. Prerequisites: HUM 2113, HUM 2223, and ENGL 1213.

HUM 4833 Studies-At-Large: International
This course is designed to foster study external to the region. Its scope will be limited to locations outside of the American continents. May be repeated once for credit.

HUM 4993 Seminar in Humanities
A reading, research, and/or lecture seminar on a particular topic, period, or genre. Seminars will require extensive reading of, and reports on, primary and secondary works and/or research project(s). Student discussion will be paramount. Prerequisite: Senior status.
Information Technology

IT 1411 Orientation to Computer Technology
The student will be introduced to such varied topics as common IT terminology, career planning, basic programming logic, ethics, and other IT issues. The Business Information Technology portfolio project will also be discussed.

IT 2143 Introduction to Networking
Explores the theory and terminology of both local and wide area computer networks and their proper application to business and industry problems. Corequisite: IT 1411 or equivalent.

IT 2153 Network Operating Systems I
A popular operating system will be covered in detail. A study of components, functions, and relationships of computer operating systems and their interactions with user programs will be offered. Prerequisite: IT 2143 or instructor’s permission. (Formerly CS 2153)

IT 2500 Cooperative Education in Information Technology
Applications of the theories, principles, and methods of information technology studies in a practical work environment. Students will learn both conceptual and applied approaches to the study of information technology and will be better prepared for a variety of career opportunities in the field. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisite: IT 2143 or instructor’s permission. (Formerly CS 2153)

IT 3113 Integrated Applications
Course emphasizing the customization of off-the-shelf software such as MS Office Applications from the recording of macros to the creation of add-ons using VBA. Prerequisite: CS 1113, CS 2233, or instructor’s permission.

IT 3153 Network Operating Systems II
Network operating systems used in an enterprise networking context. Investigates general networking principles and capabilities. Prerequisite: IT 2153. (Formerly CS/IT 2253)

IT 3253 Advanced TCP/IP Administration
This course is a study of the requirements for implementing, administering, and troubleshooting the execution of information systems that incorporate TCP/IP. Prerequisite: IT 2143.

IT 3500 Cooperative Education in Information Technology
Analyzes information technology requirements and needs by combining professional work experience with academic studies. It is a partnership among employers, students, and the University focused on professional practice and vocational education. Students have an opportunity to explore their professions and apply principles acquired in the classroom. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisite: instructor’s permission required.

IT 3723 Computer Architecture
The hardware levels of a computer are examined from gate level through the microprocessor. The roles of machine language, assembly language, BIOS, and the operating system are explored. Prerequisite: CS 2323. (Formerly IT 2723)

IT 3753 Network Security
This course is a study of the requirements for implementing, administering, and troubleshooting a secure Internet access strategy in various networking situations. Prerequisite: IT 3153.

IT 4113 Network Routing
This course is a study of the requirements for implementing, administering, and troubleshooting the execution of network topologies. Prerequisite: IT 3153.

IT 4353 Information Assurance and Security Management
An investigation of information assurance and security with an emphasis on the identification, assessment, and management of risks and threats to information security and privacy in the digital business environment. Mitigating measures are also explored. Prerequisites: BADM 3113 or ENGL 3113 and one of the following: MGMT 3423 or TECH (SCMT) 3213.

IT 4373 Information Assurance Regulations and Ethics
An investigation into the law, policy, standards, and ethics concerning the digital resources of the business environment. Prerequisites: Junior or Senior classification and IT 4353 or by instructor's permission.

IT 4500 Cooperative Education in Information Technology
Integrates the learning that takes place in the classroom with the work experience. Students enrolled in the business information technology and the applied technology programs experience the working environment through a coordinated agreement between the employer, the student, and the School of Business and Technology. The student may enroll for one to three semester credit hours each semester, not to exceed three semester hours for this level. Prerequisites: instructor’s permission required.

IT 4504 Capstone and Practicum
Small group project that integrates the materials in required courses. Includes discussions about professional and ethical issues.

Languages

LANG 1113 Foundations of World Languages
An overview of the basic forms of world languages and their relationships to modern tongues. Preliminary references to Latin/Greek root origin with specific concentration on the fundamentals of Spanish, French, and Italian.

Library Science

LSCI 1011 The Use of Books and Libraries
Orientation to the use of libraries by college students, including the special features of the RSU Library, basic reference materials, and library service.

Management

MGMT 3013 Principles of Management
A management course with emphasis on business ethics, management principles, and theory, along with current management practices as they relate to human behavior. (Formerly BMA 3013)
MGMT 3233 Human Resources Development
Distinguishes between training and development and addresses the functions and needs for organizational and individual training. Prerequisite: MGMT 3313.

MGMT 3303 Organizational Behavior
Approaches the functions and problems of management from a behavioral viewpoint. Examines individuals and groups in effective organizations and integrates these concepts with organizational structure and process considerations. Prerequisite: MGMT 3013.

MGMT 3313 Human Resources Management
Studies the functions of Human Resources and its role in the management of organizations. Selected theories, concepts, and principles of HR will be studied and applied in the context of the current business environment. Prerequisites: MGMT 3013 and MGMT 3303.

MGMT 3323 Compensation and Benefits
Compensation issues in organizations including: determining general wage and salary structure, total compensation systems, equity issues, legal issues, employee benefits administration, and theoretical issues. Prerequisite: MGMT 3313.

MGMT 3333 Employment and Labor
Management techniques for the administration of labor agreements, collective bargaining and union management relations, and evaluation of labor relations in union and non-union organizations. Prerequisite: MGMT 3313.

MGMT 3353 Organizational Theory
The design and interrelationships of formal organizations and the communication needs for efficiency and effectiveness. (Formerly BMA 3353)

MGMT 3413 Production/Operations Management
Analyzes the different tools used by management to improve the decision-making process in production functions. Topics include productivity, strategy, decision making, quality improvement, work measurement, and project management. Prerequisites: ACCT 2103, ACCT 2203, ECON 2123, BADM 2843, and BADM 3113.

MGMT 3423 Management Information Systems
Analyzes the use of information systems for management decision making. Examines traditional information systems development from the end-user’s perspective. Prerequisites: MGMT 3013 and CS 1113.

MGMT 4033 Entrepreneurship
Examines the fundamentals of organizing a small business. Topics include entrepreneurship, the business plan, strategic planning, forms of ownership, marketing, pricing, cash flows, financial planning, and ethical and legal concerns in business. Prerequisites: ACCT 2103, ACCT 2203, ECON 2123, BADM 2843, BADM 3113, and MGMT 3013.

MGMT 4333 Selection and Evaluation
Theoretical, legal, methodological, and substantive issues related to selection and performance appraisal of employees. Includes job analysis and validation, test development and administration, adverse impact analysis, and affirmative action. Prerequisite: MGMT 3313.

MGMT 4413 Quantitative Methods
Studies management science/operations research techniques used in analytical decision making. The major topics covered include: linear programming modeling and solution, distribution problems, network models, project management, and decision analysis. Prerequisites: ACCT 2103, ACCT 2203, ECON 2123, BADM 2843, and BADM 3113.

MGMT 4813 Strategies and Policies
Capstone experience that studies strategic management, including environmental analysis, strategy formulation and implementation, administrative policy, and the strategic control process. Analyzes problems confronted by upper-level managers and applies concepts from prior business courses. Prerequisites: BADM 3323, BADM 3333, FINA 3503, MGMT 3413, MGMT 3423, MGMT 4033, and MKTG 3113.

MGMT 5133 Organizational Behavior and Design
Leadership skills for managers. Emphasizes development of a high performing organization through the study of leadership theory and practices, organization culture, motivation, decision-making, and group behavior.

MGMT 5143 Supply Chain Management
Supply chains with respect to product, market, and customer characteristics. Examines the role of technology, tools, and strategies used to manage logistics, decisions, inventory and risk management, procurement and supply contracting, product and process design, and revenue management.

MGMT 5213 Strategic Human Resources Management
Theories, concepts and evolution of Human Resources Management. Examines the strategic role of HR and how the traditional tasks of HR fit into this new paradigm.

MGMT 5223 Production/Operations Management
Quantitative techniques which support effective decision-making. Focuses on the formulation, analysis, and interpretation of optimization models for various applications in management including marketing, accounting, finance and operations. Includes aggregate planning, queuing theory, inventory control, scheduling, and decision theory.

MGMT 5233 Entrepreneurship and New Venture Initiation
Examination of unique entrepreneurship characteristics. Includes the skills, knowledge, information, and alternative that are necessary for finding and developing new business prospects.

MGMT 5243 Enterprise Resource Management Systems
Strategic management of technology and information systems in the business environment. Includes challenges in innovation and change management with a strategic focus on enterprise systems.

MGMT 5313 Business Strategy
Capstone experience that studies strategic management, including environmental analysis, strategy formulation and implementation, administrative policy, and the strategic control process. Analyzes problems confronted by upper-level managers and applies concepts from prior business courses. Prerequisites: Completion of at least 24 graduate hours.
Manufacturing Management

MFMG 4023 Seminar in Manufacturing Management
Operations management theory and concepts applied to current manufacturing operations problems combined with field-based study. Prerequisites: SCMT 4033, SCMT (TECH) 3213, MFMG 3053, and instructor’s permission.

MFMG 4033 Manufacturing Strategy
Reviews manufacturing management principles and techniques and examines current topics in global manufacturing operations. Topics include enterprise resource planning, lean manufacturing principles, total quality management, gemba kaizen, and continuous process improvement. Prerequisite: MGMT 3413.

Marketing

MKTG 3113 Principles of Marketing
A survey course of the functions of domestic and international marketing. (Formerly BMA 3113)

MKTG 3313 E-Marketing
E-marketing addresses how businesses use the Internet and other electronic technologies as marketing tools. The emphasis is on understanding the unique opportunities and challenges associated with electronic marketing in order to better implement a firm’s overall marketing strategy. This course will discuss e-commerce, effective websites, search engine results, advertising banners, and database marketing. Prerequisite: MKTG 3113.

MKTG 3323 Consumer Behavior
An integrative strategic marketing approach to consumer behavior analyzing the acquisition, consumption, and disposition of goods and services by consumers and organizations. Topics will include internal and external variables that influence buying decisions, buying processes, buyer-seller relationships, positioning and branding, information processing. Issues of ethics and global marketing are considered. Prerequisite: MKTG 3113.

MKTG 3453 Sales and Sales Management
Principles of selling are addressed. Distinguishes between the complementary functions of marketing and sales. Management concepts including supervision, control of sales divisions, sales planning, research, motivation, compensation of salespersons, and ethical issues are discussed. Prerequisite: MKTG 3113.

MKTG 4153 Integrated Marketing Communications (IMC)
This course will examine a blended approach toward managing a company’s marketing promotional mix and communications messaging and mediums. This course will explore the role of IMC in a traditional marketing plan and in an integrated marketing offer and message to targeted customers. Prerequisite: MKTG 3113.

MKTG 4333 Marketing Research
Examines the systematic research to marketing management decision making including identifying problems, determining information needs, designing research, collecting data, analyzing and interpreting the data, and reporting the results of the research findings. Prerequisites: BADM 2843 and MKTG 3113.

MKTG 4343 Marketing Management
Focuses on the application of marketing concepts to managerial decision making across topic areas of corporate-level strategy, marketing research, markets, products, pricing, promotion, and distribution. Prerequisites: MKTG 3313, MKTG 3323, and MKTG 4333.

MKTG 5143 Strategic Global Marketing
Key concepts, tools and theory of the global marketing environment. Challenges critical thinking about global competition.

Mathematics

MATH 0013 Basic Math
This beginning algebra course contains a basic math component consisting of operations with real numbers, percentages, volumes, areas, and perimeters of simple geometric figures; metric system; English system; and scientific notation. The elementary algebra component includes the following: signed numbers, exponents, algebraic expressions, factoring, algebraic fractions, linear equations and inequalities, systems of linear equations, and graphing. This course does not substitute for MATH 1503 or MATH 1513. This course does not apply toward total credit hours for graduation.

MATH 0113 Elementary Algebra
A beginning algebra class. Included within this course are signed numbers, exponents, algebraic expressions, factoring, algebraic fractions, linear equations, and graphing. This course does not apply toward total credit hours for graduation. Prerequisite: MATH 0013 or equivalent.

MATH 0114 Elementary Algebra Plus
A beginning algebra class. Included within this course are signed numbers, exponents, algebraic expressions, factoring, algebraic fractions, linear equations, and graphing. Lecture three hours, lab two hours per week. This course does not apply toward total credit hours for graduation. Prerequisite: MATH 0013 or appropriate placement scores.

MATH 0213 Intermediate Algebra
This class is a brief review of algebraic equations and inequalities, functions and graphs, systems of equations and inequalities, polynomials, rational expressions, roots, radicals, and quadratic functions. This course does not substitute for MATH 1503 or MATH 1513. This course does not apply toward total credit hours for graduation. Prerequisite: MATH 0114 or appropriate placement scores.

MATH 1503 Mathematics for Critical Thinking
The study of mathematics needed for critical evaluation of quantitative information. Includes basic logic/analytical reasoning, critical appraisal of graphs and tables, set theory, and introduction to descriptive and inferential statistics. Prerequisite: ACT math sub-score of 19 or equivalent.

MATH 1513 College Algebra
The study of linear functions and graphs of equations. Includes operations with functions; the study of polynomial, rational, exponential, and logarithmic functions and their graphs; sequences and variation. Prerequisite: ACT math sub-score of 19 or equivalent.
MATH 1613 Trigonometry
Includes trigonometric functions applications, identities, complex numbers, equations, inverse functions, and logarithmic functions. Pre or co-requisite: MATH 1513.

MATH 1715 Pre-Calculus
This course covers the contents of college algebra and trigonometry.

MATH 1743 Calculus I for Business
Designed to acquaint the student with the applications of calculus to the solution of business problems, with emphasis on the applications to maximization, minimization, optimization, and marginal analysis. Prerequisite: MATH 1513.

MATH 2100 Seminar in Mathematics
The seminar offers the student an opportunity to study special topics in mathematics. Enrollment only by consent of the supervising instructor. (1-4 credit hours.)

MATH 2213 Mathematical Structures I
A content-oriented course for elementary teacher majors. A study of the fundamental structure of mathematics. Includes systematic problem solving, logic, set theory, properties and operations in the different number systems, various bases, number theory, and techniques of reasoning and proof. Prerequisites: ACT math subscore of 19 or equivalent. MATH 0213 or equivalent.

MATH 2264 Analytical Geometry and Calculus I
Includes functions of one variable, rectangular coordinates, equations and properties of algebraic plane curves, limits, derivatives, differentials, anti-derivatives, definite integrals, applications of derivatives and integrals, the natural logarithm, and exponential functions. Prerequisite: MATH 1613.

MATH 2364 Analytical Geometry and Calculus II
A continuation of MATH 2264 covering applications of integration, derivatives and integrals of the inverse trigonometric functions, integration techniques, use of integral tables, indeterminate forms, improper integrals, sequences and series, Taylor and Maclaurin series, and conic sections. Prerequisite: Math 2264.

MATH 2464 Analytical Geometry and Calculus III
A continuation of MATH 2364 involving parametric equations, polar coordinates, analytical geometry in three-dimensional space, vectors in two and three dimensions, vector-valued functions, derivatives of multi-variable functions, multiple integration, introduction to vector analysis, and Green’s Theorem. Prerequisite: MATH 2364.

MATH 2843 Statistics
An introduction to basic statistical terminology, organization of data, measures of central tendency and dispersion, and application of statistical techniques. Includes elementary probability, sampling, estimation, hypothesis testing, and a variety of other statistical techniques. Prerequisite: MATH 1513 or instructor’s permission. (Formerly cross-listed with BADM 2843)

MATH 3113 Differential Equations
First-order ordinary differential equations, existence and uniqueness theorems, linear ordinary differential equations with constant coefficients, power series methods, numerical methods, and Laplace transform methods. Pre or co-requisite: MATH 2464. (Formerly MATH 2563)

MATH 3413 Mathematical Structures II
A study of the fundamental structure of mathematics for non-science majors. Topics include: plane geometry; geometric motion such as translation, rotation, and reflection; polyhedra; and applications to measurement. No major or minor credit in mathematics. Prerequisite: MATH 1503, MATH 1513, or MATH 2213.

MATH (CS) 3433 Discrete Mathematics
Logic; set theory; order; algorithms; mathematical proof including induction, recursive functions, and recursive algorithms; and combinatorics. Prerequisites: MATH 2264 and CS 2223.

MATH 3523 Linear Algebra

MATH 3950 Special Topics in Mathematics
Focus of the course is an approved area of mathematics to be determined by faculty for each semester offered. The course may be repeated for credit. (1-4 credit hours).

Military Science

MS 1030 Military Science Leadership Lab
A non-credit course required each semester for the Guard Officer Leadership Development (GOLD) Program recruits, soldiers and Military Science majors. This course provides leadership and management opportunities in formal and informal military settings. This course does not apply toward total credit hours for graduation.

MS 1213 Small Group Leadership and Dynamics
This is an introductory course to military science and leadership. Emphasis on understanding leadership styles, evaluating personal leadership capabilities, problem solving, teamwork, goal-setting, and cultivation of individual soldiering skills. This course is a prerequisite for MS 3113, MS 3213, and MS 3413.

MS 2113 Foundations of Leadership
This course explores the foundations of leadership with an added focus on the dimensions of creative and innovative leadership strategies and styles. Students learn to apply strategies of personal motivation and team-building in the context of planning, executing, and assessing team exercises and events. Students employ communication skills to lead troops in problem-solving exercises. Students are also taught terrorism awareness and basic principles of war. Open to all students.

MS 3113 Military Leadership and Management
This course is designed to prepare the student for leadership positions primarily in the Oklahoma Army National Guard. Students will learn small unit leadership fundamentals and will examine the junior officer’s role and responsibilities in the leadership process. Topics covered will include: professional ethics, operational planning, gathering and analyzing intelligence data, soldier/team development, and briefings in the military format. Prerequisite: MS 1213
MS 3213 Military Tactics and Operation
This course is designed to prepare the student to become a commissioned officer in the Oklahoma Army National Guard. Students will learn small unit tactical leadership fundamentals from an historical perspective and apply them to today’s operational environment via the completion of situation exercises. Topics covered include offensive and defensive operations, military history, and graphical representation. Prerequisite: MS 1213.

MS 3413 Foundations of Tactical Leadership
An examination of the challenges of leading tactical teams in the complex contemporary military operation environment. This course highlights dimensions of terrain analysis, patrolling, and operations orders. Further study of the theoretical basis of the Army Leadership Requirements Model explores the dynamics of adaptive leadership in the context of military operations. Students develop greater self-awareness as they assess their own leadership styles and practice communication and team-building skills. Contemporary Operating Environment case studies give insight into the importance and practice of teamwork and tactics in real-world scenarios. Open to all students. Prerequisite: MS 1213

MS 3950 Special Topics in Military Science
This course can be used multiple times for variable credit. This course requires a student to conduct research on an issue related to Military Science. Both oral and written examinations may be required. Prerequisite: permission from the Professor of Military Science. Hours: 1-5

Music

MUSC 1013 Fundamentals of Music
An introduction to fundamental music concepts such as note and rhythm reading, performance skills, and harmonic construction of music. Major elements of music will be discussed and analyzed through practical applications, including simple composing and arranging. Intended for students with little or no formal musical training. (Formerly MUSC 2563)

MUSC 2210 Choir
Explores the different genres and practices of the modern collegiate Mixed Choir through public performance. Instruction in improvisation and vocal techniques included. Open to all RSU students and community members; no audition necessary. This is a non-credit course. Prerequisite: instructor’s permission.

MUSC 2211 Choir
Explores the different genres and practices of the modern collegiate Mixed Choir through public performance. Instruction in improvisation and vocal techniques included. Open to all RSU students; no audition necessary. Course may be repeated for credit. Prerequisite: instructor’s permission. (Formerly MUSC 1211)

MUSC 2310 Jazz Ensemble
Explores the different genres and practices of the Jazz Ensemble through public performance. Instruction in improvisation and jazz techniques included. Open to all RSU students and community members by audition. This is a non-credit course. Prerequisite: instructor’s permission.

MUSC 2311 Jazz Ensemble
Explores the different genres and practices of the Jazz Ensemble through public performance. Instruction in improvisation and jazz techniques included. Open to any RSU student by audition. Course may be repeated for credit. Prerequisite: instructor’s permission. (Formerly MUSC 1311, MUSC 3311, MUSC 4311)

MUSC 2410 Concert Band
Explores the different genres and practices of the modern collegiate wind band through public performance. Open to all RSU students and community members; no audition necessary. This is a non-credit course. Prerequisite: instructor’s permission.

MUSC 2411 Concert Band
Explores the different genres and practices of the modern collegiate wind band through public performance. Open to all RSU students; no audition necessary. Course may be repeated for credit. Prerequisite: instructor’s permission.

MUSC (HUM) 2573 Music Appreciation
The course is designed to cultivate a broader listening and appreciative attitude toward music. Lectures with musical illustrations on important works of musical literature are included. Humanities elective.

MUSC 2843 History of Jazz
The history and development of jazz music, with topics ranging from the roots of jazz to modern fusion styles. Covers major performers, eras, and innovations, including important contributions from Oklahoma jazz musicians. The connections of jazz history to major social developments will be discussed and analyzed.

MUSC 3443 American Popular Music
An introduction to American popular music from the Colonial period to the present. Special attention given to contributions of Oklahoma musicians to American popular music.

MUSC 3723 History of Music I
A study of Western art music from ancient Greece to 1750 including the historical backgrounds, influences, composers, and artists in music. Prerequisite: MUSC 2573.

MUSC 3743 Conducting
Develop the basic skills and gestures to adequately conduct an ensemble. Meaningful gestures, musicanship, music rehearsal, and critique will be introduced and mastered. The course will effectively apply knowledge gained in MUSC 1013 into authentic musical experiences. Prerequisites: MUSC 1013 and MUSC 3723.

MUSC 3823 History of Music II
A study of Western music from 1750 to the present including the historical backgrounds, influences, composers, and artists. Prerequisite: MUSC 3723.

MUSC 3953 Special Topics in Music
Content will be determined by the specific course offered. May be repeated up to 9 credit hours with change of topic. Prerequisite: instructor’s permission.
Native American Studies

NAMS 1123 Native American Spirituality I
Orientation and study of Native American beliefs made integral through literature, oral traditions, and lifestyles. General concepts will be studied to find similarities in a range of mythologies, and specific tribal stories will serve as contrast.

NAMS 1143 Native Americans of North America
Introduction to the inhabitants from the North Pole to southern Mexico at the centuries directly before and immediately after specific European incursions. Note will be made of cultural relationships such as languages and myths among various peoples distributed throughout the area.

NAMS 2123 Native American Spirituality II
Advanced study of Native American spirituality in comparison to Western religion, culture, and community, through participation and discussion, medicine wheel, sweat lodge, meditation, dance, etc. This class will examine spiritual growth through the study of Native American practices and values.

NAMS 2203 Native Americans of the United States
Study of the history and cultures of Native Americans around the European incursions and establishment of the United States to present. Conflicts with European explorers and rebellions of indigenous peoples and the results of such actions will be reviewed. Whenever possible, comparisons between European and Native American accounts of such events will be made.

NAMS 2233 Native Americans of Oklahoma
Oklahoma is home to more than 40 American Indian tribes, tribal towns, nations, and bands. NAMS 2233 discusses the ways in which the tribes came to reside in the present day state of Oklahoma, and also explores each tribe as a unique entity unto itself. Both contemporary and historical perspectives will be addressed, as well as contemporary cultural issues and current events.

NAMS 2403 Field Research in Native American Culture
This course is designed to be a cooperative effort between RSU and local museums and research facilities such as Gilcrease and Philbrook museums. Students will be provided a list of topics of importance to the understanding of Native American cultures to be thoroughly researched during the semester.

NAMS 2423 Indigenous Language of Native Americans
A study of the general categories of languages that are the bodies that branch into hundreds of specific local languages. Information about linguistic clues that reveal migrations and relationships to pre-tribal cultures will be discussed and researched.

NAMS 2503 Cherokee I
The purpose of this course is to teach basic conversational Cherokee with some emphasis on prefixes, suffixes, and roots of Cherokee words to reflect changes in the usage of words in the language.

*Conversational Native American Languages. All Native American language courses are subject to availability of instructors and current information about languages.

NAMS 2583 Seminar in Native American Language
The study of other Native American languages. (Offered on demand.)

NAMS 2623 Cherokee II
Instructions are carried out totally in the Cherokee language. No English is used. Stress is on conversational Cherokee. This method of teaching Native American languages is proving to be the most effective method yet developed.

*NAMS 2850 Native American Seminar
This course is designed to address particular issues in regard to the Native American culture. Course content to be determined each semester offered and will be selected from, but not limited to, the following: art, language, religion, music, history, and current events. (1-4 credit hours.) (Formerly NAMS 2853)

NAMS 3113 Contemporary Native American Issues
Subjects to be covered include issues regarding tribal sovereignty, religious freedom, gaming, the Native American Graves Protection and Repatriation Act, CDIB status, museum development and management, government programs relating to tribes, Indian Health Service, the Bureau of Indian Affairs, and tribal elections. Current local, state, and national events, court cases, and evolving issues regarding tribes and tribal people will be a consistent subject throughout the course.

NAMS 3263 Native American Law
An intensive review and advanced analysis of Native American law based on the foundational sets of legal principles of U.S. Federal American Indian law, the laws of tribal governments, and international laws applicable to Indigenous people. (Formerly NAMS 2263)

NAMS 4123 Native American Literature
Building on the foundation of the oral tradition–stories, songs, and poems of traditional Native Americans–this course is an examination of contemporary authors and issues in Native American Literature. The course will focus intensively on a few writers and/or poets per semester.

Nursing

NURS 1111 Nursing Concepts
A study of professional nursing concepts and theory. Prerequisites: Admission to the Nursing Program, BIOL 1144, BIOL 2215, NURS 1191, and ENGL 1113.

NURS 1117 Foundations of Nursing Practice
Integrated theoretical and clinical studies with focus on the acquisition of basic nursing skills for health maintenance through the life span. Prerequisites: Admission to the Nursing Program, BIOL 1144, BIOL 2215, NURS 1191, ENGL 1113, and ORIE 1151.

NURS 1191 Dosage Calculation
A study of calculation of safe medication dosages. Medication administration is not included. Prerequisite: ACT Math sub-score of 19 or equivalent.

NURS 1228 Therapeutic Nursing Interventions I
Integrated theoretical and clinical studies with focus on restoration of health through the life span. Prerequisites: NURS 1111 and NURS 1117.
NURS 1433 Bridge to Registered Nursing
This course is designed for licensed paramedics and licensed practical nurses who are seeking advance standing in the associate degree nursing program. Emphasis is placed on the nursing process and critical thinking as well as the role and competencies of the associate degree nurse. Prerequisites: Permission and BIOL 1144, BIOL 2215, BIOL 2124, ENGL 1113, PHAR 2113, PHIL 2123, NUTR 1113, NURS 1111, and ORIE 1151.

NURS 2005 Basic Patient Care I
This course represents prior learning by licensed paramedics and licensed practical nurses by virtue of successful completion of organized educational programs and licensure. This course is for licensed paramedics with degrees in Emergency Medical Services and licensed practical nurses who have graduated from NLNAC accredited programs. It is awarded upon admission into the Associate in Applied Science Nursing Bridge Option and completion of 12 credit hours in residency at Rogers State University.

NURS 2015 Basic Patient Care II
This course represents prior learning by licensed paramedics and licensed practical nurses by virtue of successful completion of organized educational programs and licensure. This course is for licensed paramedics who do not have a degree in Emergency Medical Services and licensed practical nurses who did not graduate from NLNAC accredited programs. It is awarded upon admission into the Associate in Applied Science Nursing Bridge Option and completion of 12 credit hours in residency at Rogers State University.

NURS 2138 Therapeutic Nursing Interventions II
Integrated theoretical and clinical studies with focus on promotion of health through the life span. Prerequisite: NURS 1228.

NURS 2223 Transition to Nursing Practice
A study of role transition, including integration of selected clinical areas with the core competencies of professional nursing practice. Prerequisite: NURS 2138. (Formerly NURS 2221)

NURS 2246 Nursing in a Complex Environment
Integrated theoretical and clinical studies with focus on the restoration, maintenance, and promotion of health and management of acute and chronic illness. Prerequisite: NURS 2138. (Formerly 2248)

NURS 4003 Professional Nursing Role
Assists the associate degree or diploma-prepared nurse’s transition toward completion of a baccalaureate degree in nursing. Presents professional nursing role competencies that are essential to address current and future challenges of nursing and health care. Uses nursing theory to organize and link the increasing body of nursing knowledge. Prerequisites: Must be a registered nurse with an active nursing license; admission to the program or permission.

NURS 4013 Health Assessment/Promotion
Health Assessment/Promotion provides a comprehensive knowledge base to collect and analyze a complete physical assessment and health database using a holistic framework and to formulate nursing diagnoses. Requires laboratory. Prerequisite or Concurrent: HLSC 3323 and admission to the program or permission.

NURS 4113 Rural Nursing
Rural Nursing integrates current health issues of individuals, families and communities that are unique to rural areas with emphasis on cultural diversity and ethnicity. The course is designed to expand community and individual long-term health issues and professional practice. Prerequisite: Admission to the program or permission.

NURS 4213 Nursing Science and Research
Elements of quantitative and qualitative research processes are introduced. Builds research skills, assists the nurse to be a critical consumer of nursing research. Develops appreciation for research in nursing practices. Emphasis is given to critical analysis and application of research in clinical nursing practice. Prerequisites: Admission to the program and NURS 4003 or permission.

NURS 4214 Management and Leadership in Nursing
Theories of leadership, management, organization, and planned change with an expanded view of health services with emphasis on governmental or public institutions. Includes analysis of health care systems, methods, and strategies that inhibit or facilitate change. Professional and ethical issues, legislation, and emerging nursing roles are studied. Requires 32 hours arranged field experience. Prerequisites: NURS 4003 and NURS 4113. Prerequisite or corequisite: NURS 4234.

NURS 4223 Professional Nursing Practice Seminar
Opportunity to pursue an area of special interest in professional nursing practice through independent study. Understanding and integrating influence in the professional nursing role explored. Prerequisite: NURS 4214 or permission.

NURS 4224 Family, Community and Public Health Nursing I
Family nursing practice during the stages of the family life cycle. Theories, concepts, and issues of family nursing and community health nursing practice are explored. Includes an in-depth study of the family and defines population aggregates as a focus of collaborative interaction. Epidemiological processes, community resources, and health issues unique to specified populations are surveyed. Requires 32 hours arranged field experience. Prerequisites: Admission to the program, NURS 4013, and NURS 4213. Prerequisite or corequisite: NURS 4113.

NURS 4234 Family, Community and Public Health Nursing II
Integration of current knowledge, theory, and research relevant to nursing practice and public health practice to promote and preserve the health of populations. Provides opportunity to partner with community or other health professionals to manage and provide resources. Requires 32 hours arranged field experience. Prerequisite: NURS 4224.

Nutrition
NUTR 1113 Introduction to Nutrition
A study of nutrients (including general functions), factors affecting utilization, food sources, dietary allowances, food economics, special needs in the life cycle, current issues in nutrition, energy metabolism, food economics, special diets, and fad diets. The role of nutrients in the functioning of the human immune system is discussed.
NUTR 3011 Geriatric Nutrition
Analysis of the effects of aging on nutritional needs and physiological processes relevant to nutrition. Special emphasis will be placed on aspects of geriatric nutrition most relevant to professional health care providers. Prerequisite: NUTR 1113 or permission.

NUTR 3021 Nutrition Aspects for the Community Health Nurse
Analysis of the role of nutrition in the public health setting. Prerequisite: NUTR 1113 or permission.

NUTR 3031 Nutrition Assessment
Analysis of the issues involved in the assessment of nutritional status in a variety of settings. Special emphasis will be placed on nutrition screening. Prerequisite: NUTR 1113 or permission.

NUTR 3041 Nutrition Management of Obesity
Analysis of the issues involved in the assessment and management of the overweight or obese patient in a variety of community and health care settings. Prerequisite: NUTR 1113 or permission.

NUTR 3051 OB/GYN and Lactation Nutrition
Analysis of the effects of pregnancy and lactation on nutritional needs and physiological processes relevant to nutrition. Prerequisite: NUTR 1113 or permission.

NUTR 3061 Pediatric Nutrition
Analysis of the effects of growth and development on nutritional needs and physiological processes relevant to nutrition. Prerequisite: NUTR 1113 or permission.

NUTR 3083 Nutrition for Sport and Fitness
A study of the role of nutrition in sport and fitness including fluid and electrolyte balance, supplements and ergogenic aids, and special problems such as bulking-up and dehydration. Prerequisites: BIOL 1144 and NUTR 1113.

Organizational Leadership

ORGL 3113 Foundations of Organizational Leadership and Personal Development
This course is an introduction to the Organizational Leadership Bachelor of Science program. Essential components will include: overview of program expectations; principles of adult learning; resources for success including library, campus, online resources, and mentoring relationships; personal wellness/stress and time management techniques; study and test-taking skills; and basic computer skills for working in an online environment.

ORGL 3223 Professional Communication
A study of communication in the workplace within a framework of organizational ethics. Essential components and course content include: listening, verbal and nonverbal communication, written expression, and professional presentation methods.

ORGL 3333 Data Analysis and Interpretation
This course will enable the student to develop an understanding of the application and interpretation of basic data analysis. Essential components and course content will include basic data analysis from a user perspective. Hands-on exercises will enable students to utilize Excel to solve problems and interpret results.

ORGL 3443 Survey of Fiscal Management
A managerial overview of fiscal management within organizations. Essential components and coursework content will include: understanding the components and articulation of financial statements, knowledge and application of financial ratios leading to an understanding of organizational performance across time and in comparison to industry standards, utilization of financial information in the acquisition of capital and budgeting decisions, and rudimentary understanding of cash flows.

ORGL 4113 Ethics and Organizations
This course is designed to examine the dynamics of workplace and personal ethics through the study of basic philosophical theories. Essential components and course content will include: leadership in the context of self-governance, responsibility, adherence to principles, integrity, and constancy of purpose. Current case studies will be used to apply ethical theories.

ORGL 4223 The Individual, the Organization, and Society
An examination of contemporary issues that affect organizations. Essential topics include environmental stewardship, social responsibility of the organization, effects and implications of globalization, the status of individual freedom within the organization, diversity, and the ramifications of technological change. This seminar course will be organized around student discussion and topical papers.

ORGL 4333 Leading and Managing
This course is a study of theories that influence leadership and management with application to a variety of work situations. Essential components and coursework content will include: basic leadership and behavior styles, negotiation, critical thinking, change, conflict resolution, ethics and social responsibility, and diversity in the workplace. Assessment of personal leadership abilities and personality traits will be included.

ORGL 4443 Markets and Stakeholders
This course introduces the student to the concept of markets and stakeholders. Essential components and course content will include: an overview of competitive markets, buyer behavior, development of new markets and products, marketing communication, distribution channels, pricing, and marketing mix strategies. It will include a discussion of external environmental factors and stakeholder analysis. Students will be able to evaluate market needs, select target markets, and develop an appropriate market mix.

ORGL 4553 Capstone
This course provides the student the opportunity to integrate concepts and theories covered in the core with their area of focus. Students will design and implement a capstone project related to their area of focus culminating in a written and oral presentation. This course must be taken in the student’s final enrollment period.

ORGL 4993 Professional Internship
Supervised professional-level assignment with an organization, firm, government agency, or not-for-profit entity within the selected area of focus. Prerequisites: All core courses except ORGL 4553 Capstone and instructor’s permission.
### Orientation

**ORIE 1151 The College Experience**
Preparation for success as a student, including study skills, interpersonal communications, information about opportunities available at Rogers State University, and initial steps in career planning. A course emphasizing the importance of planning, proactive learning, how to study, building community on campus, and fostering an understanding of self. The College Experience is designed to help students develop patterns and practices.

### Pharmacology

**PHAR 2113 Fundamentals of Pharmacology**
A fundamental course presenting the history of drug administration, legal controls, safety issues, mechanisms of drug action, and excretion. Drug groups are presented according to action and use, and individual drugs are delineated as to dosage, mode, onset, peak, duration, side effect, contraindication, precautions, interactions, and therapeutic blood level when known. Prerequisite: BIOL 2215 or LPN or NREMT-P.

### Philosophy

**PHIL 1113 Introduction to Philosophy**
An introduction to philosophy, mainly Western, but also including world traditions, that examines the thought of major philosophers and explores the traditional questions of philosophy about the nature of reality, knowledge, values, and humanity. Humanities elective.

**PHIL 1313 Values and Ethics**
A study of ethics and values from a comparative and structural basis to include origin and base of formulation.

**PHIL 2123 Logic**
A survey of logic and its applications. Emphasis will be given to deductive logic, but may also include some treatment of inductive logic and the philosophy of logic. Common fallacies and errors in reasoning will also be discussed. (Formerly PHIL 1213)

**PHIL 3213 Philosophy of Law**
Examination of global philosophical issues related to law and politics, focusing on the relationship between law and morality, the nature and functions of law, traditional concepts of justice, and contemporary discussions of political legitimacy.

**PHIL 3313 Ancient Philosophy**
An in-depth survey of philosophy from the Presocratics to Plotinus. Topics include, but are not limited to, the relationship between mythos and logos in philosophical inquiry, the nature of reality, the limits of human knowledge, and the elements of a good life. (Formerly PHIL 2113)

**PHIL 3343 Advanced Ethics**
An advanced study of ethical theory, with emphasis on current debates in metaethics, normative ethics and applied ethics. Prerequisite: PHIL 1113 or PHIL 1313 or instructor permission.

**PHIL 3413 Medieval and Renaissance Philosophy**
An in-depth survey of philosophy from the early Middle Ages to the Renaissance. Topics include, but are not limited to, the relationship between faith and reason, the existence and nature of God, the problem of universals, the problem of evil, and humanism. (Formerly PHIL 2313)

**PHIL 3950 Special Topics in Philosophy**
Current topic in approved area of philosophical study. Content will be determined by the instructor. Repeatable up to 6 hours. (1-6 credit hours.)

### Physics

**PHYS 1014 General Physical Science**
An introduction to the fundamentals of physical science with emphasis in physics and chemistry. Course includes applications to other physical sciences. Laboratory required. Prerequisite: ACT math sub-score of 19 or equivalent.

**PHYS 1114 General Physics I**
General course including mechanics, heat, and sound. Satisfies requirements for pre-medical areas. Laboratory required. Prerequisite: MATH 1613 or MATH 1715.

**PHYS 1214 General Physics II**
General course including magnetism, electricity, and light. Continuation of PHYS 1114. Lab two hours per week. Prerequisites: MATH 1513, MATH 1613, and PHYS 1114.

**PHYS 2015 Engineering Physics I**
Intended for students majoring in physics, mathematics, or engineering. This course gives a more rigorous treatment of the topics of mechanics, heat, and sound than found in PHYS 1114. Laboratory required. Prerequisite: MATH 2264.

**PHYS 2115 Engineering Physics II**
A continuation of PHYS 2015, this course covers the topics of electricity, magnetism, and light. Lab two hours per week. Prerequisite: PHYS 2015. Pre or corequisite: MATH 2364.

**PHYS 3113 Physics for Gaming**
Application of the laws of physics to the creation of computer games with physics-based realism. Topics include kinematics, collisions, rotation of massive objects and explosions, and motion under the influence of various forces. Prerequisite: PHYS 1114.

**PHYS 3950 Special Topics in Physics**
Focus of the course is an approved area of physics to be determined by faculty for each semester offered. The course may be repeated for credit. (1-4 credit hours.)

### Political Science

**POLS 1113 American Federal Government**
A study of the principles, structures, processes, and functions of the United States federal government.

**POLS 2033 American Legal System**
A general perspective of the legal system and judicial branch of government; introducing legal terminology, survey of practices, and ethics of legal profession. (Formerly POLS 2013 and cross-listed with LA 2033)
POLS 2043 Introduction to Comparative Politics
An introduction to the methods of comparative political science examining the differences in political systems and political cultures. A research paper, exams, and other writing are required. Prerequisite: POLS 1113 or instructor’s permission.

POLS 2123 An Introduction to Political Ideas
This course explores the impact of political ideas and ideological systems of thought, focusing particularly on major ideologies that have emerged in nineteenth and twentieth-century political thought. (Formerly POLS 3043)

POLS 2153 Civil Rights and Liberties
The politics, theory, and jurisprudence of civil rights and liberties in America are examined. A research paper, exams, and other writing are required. Prerequisite: POLS 1113 or instructor’s permission.

POLS 2253 Political Practicum
Monthly seminar structured to involve students in a supervised manner in the political process. No less than 32 additional hours spent in campaign activity verified by an approved campaign manager.

POLS 3013 State and Local Government
This course explores the types of governments within states, municipalities, and other forms of local government as well as the influence of politics and recent trends affecting state, county, and municipal governments. An examination of contemporary issues will include civil rights, education, poverty, welfare, health, corrections, finance, and taxation. Special emphasis will be given to state and local government in Oklahoma. Prerequisite: POLS 1113. (Formerly POLS 2213)

POLS 3023 Introduction to Public Administration
This course covers general concepts of public administration and the significance of administration in the modern state. Course content includes an analysis of administrative theory, structure, and organization; dynamics of management and decision making; and fiscal, personnel, and operational administration. Prerequisite: POLS 1113.

POLS 3033 Introduction to Public Policy
This course introduces the study of public policy by relating social problems to processes for conflict resolution. Topics include problem identification, policy formulation, institutional decision making, policy implementation and evaluation, and opportunities for reform and change. Prerequisite: POLS 1113.

POLS 3053 International Relations
This course introduces students to the dynamics of relationships among nation-states. An important element of this course is the introduction of world views including realism, idealism, and the various behaviorist models that have emerged in the last 30 years.

POLS 3063 Constitutional Law
An exploration and analysis of the constitutional foundations of American law and government, the different methods of constitutional interpretation, and the law’s function as a basic medium for resolving conflict in a federal constitutional democracy. Prerequisite: POLS 1113.

POLS 3083 Intelligence, Politics, and Public Policy
A study of the politics of intelligence policy within the broader framework of public policy, including the means by which governments surveil other governments and international entities, their own citizenry, and how evolving technology and circumstances have significantly increased the capacity of the state to gather intelligence. Prerequisite: POLS 1113 or instructor’s permission.

POLS 3123 Political Terrorism and Violence
A comparative study of political terrorism and other forms of political violence (e.g. revolution, civil war, insurgencies, etc.). It will provide students with analytical tools for understanding why such events occur, focus on policies designed to prevent these sorts of violent political strategies, and will challenge students to analyze the effectiveness of different counter-terrorist and counter-insurgency strategies. Prerequisite: POLS 1113 or instructor’s permission.

POLS 3143 Introduction to Political Theory
An introduction to the history and tradition of political thinking and thought. This course may be taught alternatively as an introduction to the classics of Western political thought or as an introduction to the tradition of political philosophy. Prerequisite: POLS 1113. (Formerly POLS 2023)

POLS 3153 Introduction to American Political Thought
A survey course exploring the interaction of ideas and events in the evolution of American political thought. The course will explore the development of American ideas on issues like liberty, equality, and justice from the American Revolutionary period through the Civil War and into the Twenty-first century. Prerequisite: POLS 2123.

POLS 3163 The American Presidency
A study of the constitutional foundations of the presidency, the evolution of presidential power, and the selection process. This course also analyzes the executive branch within the framework of the separation of powers, and explores contemporary issues related to the office. Prerequisite: POLS 1113.

POLS 3173 The American Congress
A study of the role of Congress in the American political system. This course explores the Framers’ view of legislative power and focuses on the role and meaning of representation in a democratic system of governance. This course also addresses the organization and structure of the two houses of Congress, their distinctive cultures, and the role of leadership in exploring the legislative process.

POLS 3213 Bureaucratic Politics
The purpose of this course is to expose students to various theories of organization, and to explore the impact of bureaucratic culture on policy implementation. Additionally, students will learn about the evolution of various bureaucratic agencies. Prerequisite: POLS 1113.

POLS (CJ) 3243 Ethics in Public Service
This course investigates the distinctive ethical dilemmas that face leaders whose work will likely impact the public at large. Case studies, ethical concepts, and terminology are introduced in an effort to seriously analyze the practical application of ethical practices in the public sector. Prerequisite: POLS 1113.
POLS 3273 Intergovernmental Relations
This course explores the relationships among federal, state, metropolitan, tribal, and local units of government. Students will learn about current trends, issues, judicial interpretations, and administrative actions involving intergovernmental relations (IGR). Prerequisite: POLS 1113.

POLS 3553 Public Finance and Budgeting
This course provides an introduction to the politics and methods of modern public finance and budgeting. Topics covered include the budget process and cycle, revenue sources, expenditure analysis, fiscal federalism, budget balancing, budget implementation, budget adaptability, controls, management analysis, procurement, debt management, deficit reduction, capital financing, and the role of budgeting in the overall context of the political economy. Prerequisites: ACCT 2203 and POLS 1113.

POLS 3950 Topics in Politics
A seminar in selected topics in politics. Topics and credits may vary each time the course is offered (1–3 credit hours). May be repeated with changes of topic. Prerequisite: POLS 1113. (Formerly POLS 2890)

POLS 4013 Campaigns, Elections, and Voting
This course analyzes factors influencing voting choices, campaign strategies and techniques, changes and trends in U.S. elections, and methods of predicting and interpreting election results.

POLS 4023 Democracy
This course examines the concept of democracy from its historical foundations to current issues challenging democracy in the twenty-first century.

POLS 4033 American Foreign Policy
A survey course in the evolution of American foreign policy. This course will consider the role the United States plays in world affairs, and the relationship between the United States, foreign governments, and the various non-governmental and international organizations that constitute the international community.

POLS 4043 The Media and Politics
A survey of the role the media plays in the governing process. This course will examine the mediating relationship the media plays between governmental actors and citizens: the importance of information, its impact on public opinion, and the quality of news coverage of politics.

POLS 4103 National Security Strategies
An overview of the various challenges, threats, and opportunities that exist within the sphere of national security. It will provide a historical overview of the evolving nature of U.S. national security. Students will critically analyze theories of national security, and the challenges related to securing an open society in a world characterized by a variety of serious threats such as terrorism, regional conflicts, and nuclear proliferation. Prerequisite: POLS 1113 or instructor’s permission.

POLS 4213 Environmental Policy and Regulation
Political, scientific, social, legal, and economic dimensions of international resource use, pollution, and Environmental Studies development.

POLS 4323 Administrative Law and Regulation
Students will learn about the principles governing federal agencies as well as the constitutional and statutory constraints on the structure of the administrative state and the scope of presidential, congressional, and judicial control over these agencies. Prerequisite: POLS 1113.

POLS 4511 Grant Writing
The purpose of this course is to teach future municipal and nonprofit managers how to create successful grant proposals. Prerequisite: POLS 1113.

POLS 4513 Grants and Compliance
This class emphasizes hands-on writing and research for nonprofit and educational grants. Instructional areas include understanding grant funder and grant reviewer perspectives, finding funding sources, designing budgets, managing grants, reporting and complying with requirements, auditing, and evaluating. Instructor lectures are supplemented by readings, case studies, guest experts, and discussions. Prerequisite: POLS 1113.

POLS 4533 Municipal Government
Public management must face increasing state and federal mandates, high expectations by citizens for quality services jointed to demands for low taxes, growing populations, community revitalization, and conflicts over land and water use. This course offers students an opportunity to explore the realities of municipal management and to understand the necessity for urban planning. Prerequisite: POLS 1113.

POLS 4623 Nonprofit Administration
This course focuses on issues in the administration and management of nonprofit organizations including relationships between the nonprofit, public, and private sectors. Prerequisite: POLS 1113. (Formerly POLS 4621)

POLS 4643 Public Personnel Administration
This course will examine the processes, policies, procedures, and laws concerning public personnel. Additionally, the course will expose students to issues related to employee protection, motivation, efficiency, and responsibility. Prerequisite: POLS 1113.

POLS 4991 Exit Examination
This course will be taken by BA-PA majors in conjunction with their senior seminar, and will consist of preparation to take and pass a comprehensive, objective examination based on material from the program core courses. Prerequisite: POLS 1113; must be taken concurrently with SBS 4513.

POLS (CJ) 4993 Policy and Program Evaluation
This is a senior-level course in which students will apply knowledge they’ve gained in other courses in their major to develop and execute an evaluation plan. Throughout the course, students will learn how to interpret and apply various quantitative and qualitative research methods, measurement and data collection techniques, theoretical and practical applications, relevant literature, and cultural and ethical considerations. Prerequisite: ORGL 3333. (Formerly POLS 3503)
Psychology

PSY 1113 Introduction to Psychology
A survey of basic principles underlying human behavior. Areas covered include scientific methods of inquiry, biological foundations, sensation and perception, consciousness, learning, emotion, motivation, abnormal behavior, and therapy.

PSY 2003 The Psychology of Death and Dying
An examination of the psychology of the dying person and the measuring of death to him, his family, and associates. Attitudes toward death and the function of bereavement are explored. Implications of research of death for earlier life periods are examined. Prerequisite: PSY 1113.

PSY 2413 Psychology of Adolescence
The study of normal physiological, intellectual, and emotional aspects of adolescents. Emphasis is on normal development and change as well as psychological and cultural forces affecting them. Issues such as suicide and gangs will be discussed. Prerequisite: PSY 1113.

PSY 2713 Psychology of the Older Adult
A study of the normal physiological, intellectual, and emotional aspects of the aging population. The nature and problems of the older adult in modern American society will be discussed. Prerequisite: PSY 1113.

PSY 3003 Human Sexuality
A study of human sexuality from biological, psychological, and social perspectives. An examination of contemporary psychosexual research and theory. Topics are addressed from a science-based perspective and include: history of sex research, gender roles, gender differences in sexual expression, homosexuality, pornography, prostitution, sexual coercion, sexual disorders, and sexual anatomy. Prerequisite: PSY 1113. (Formerly PSY 2933)

PSY 3013 Abnormal Psychology
Provides a brief overview of the wide spectrum of mental disorders (psychopathology). It examines the definition, classification, etiology, characteristics, and different treatment modalities of several behavioral deficits. Emphasis will be on clinical aspects of each disorder and the application of diagnostic criteria from the Diagnostic and Statistical Manual of Mental Disorders (DSM). Prerequisite: PSY 1113.

PSY 3023 Social Psychology
Major theories, methods, and research findings that comprise the discipline of social psychology are examined from a critical standpoint including conformity, social influence, social cognition, prosocial behavior, prejudice, group processes, interpersonal attraction, and social comparison. Increases awareness of the social, historical, and political dimension to psychological understanding. Prerequisite: PSY 1113.

PSY 3033 Developmental Psychology
A life span course designed to provide an understanding of human behavior and characteristics from conception to death. Information is included on physical, cognitive, and psychosocial development at each period of the life span. Emotional aspects associated with development will be discussed. Prerequisite: PSY 1113. (Formerly PSY 2613)

PSY 3043 Child Psychology
This course provides an understanding of human behavior and mental processes from conception through adolescence. Includes study for the physical, cognitive, and psychosocial development of the child. Prerequisite: PSY 1113.

PSY 3053 History and Systems of Psychology
Survey of the history of the various dogma, theories, technology, and methodological approaches to the behavioral sciences. Prerequisite: PSY 1113.

PSY 3063 Clinical Neuroscience
An exploration of the neurobiological foundations of mental health and mental illness, including the study of etiology of mental diseases, developments in genetics, and the evaluation of research findings into applied clinical approaches leading to effective therapies. Prerequisite: PSY 1113.

PSY 3223 Learning
This course covers theoretical models of learning as well as empirical work from both animal and human models. The focus is on Pavlovian and operant conditioning, but other types of learning are explored including non-associative learning, verbal learning, and observational learning. The course also emphasizes the broad application of basic learning in areas such as behavior modification, child rearing, and drug tolerance. Prerequisite: PSY 1113.

PSY 3243 Cognitive Psychology
A survey of the diverse area of cognitive science. Topics include information processing, attention, memory, visual imagery, problem solving, decision making, and language. The course will emphasize both empirical and theoretical work in the area. Prerequisite: PSY 1113.

PSY 3353 Psychology of Personality
A comprehensive survey of the theories of personality from classic conceptualizations to contemporary and emerging theoretical perspectives. This course will focus on the primary approaches to understanding personality, personality development and concepts used in defining personality. Prerequisite: PSY 1113.

PSY 3993 Current Topics in Psychology
This course will focus on current topics in psychology not covered in existing course offerings. Intended for the purpose of offering high interest course topics during the semester. It may be repeated with changes of topic. Content varies with instructor. Prerequisite: PSY 1113. (Formerly PSY 2083)

PSY 4013 Clinical Psychology
This course is designed for undergraduate psychology majors with an interest in clinical psychology. The intent is to provide a survey of the field including the history, scope, methods, concepts, and profession of clinical psychology. Review of the different theoretical perspectives that constitute the discipline. The objective of this course is to provide the student with a broad, solid foundation in clinical psychology in preparation for further training in a mental health profession or psychology graduate program. Prerequisite: PSY 1113.
PSY 4023 Physiological Psychology
An examination of the biological basis of behavior with emphasis on the structural and functional anatomy of the central nervous system. Prerequisites: PSY 1113 and junior standing.

Reading
READ 0223 Developmental Reading I
This course is designed to train students in basic reading skills: to develop vocabulary, improve reading comprehension, and increase reading rate. Students are introduced to the materials they will encounter in college courses and become equipped with appropriate study skills for college success. This course does not apply toward total credit hours for graduation.

Social and Behavioral Sciences
SBS 3013 Research Methods I: Research Designs
An introduction to major research methods used in the social sciences (especially history, political science, psychology, and sociology). Students will become familiar with qualitative and quantitative research methods and explore key issues in research design.

SBS 3023 Research Methods II: Analysis and Application
Appropriate social science research methods are applied to a problem or topic of the student's choice. Students may conduct original research, formulate research proposals, or synthesize existing research for the benefit of a non-specialist audience.

SBS 3033 Perspectives on Human Behavior
A study of the differing conceptions of human behavior prevalent in the contemporary social sciences.

SBS 3043 Field Placement
Students volunteer in one or more community service agencies or charities to acquire personal knowledge of human problems and organized efforts to respond to them. Weekly meetings and journals provide for reflection on this experience.

SBS 3053 Social Systems and Problems
An inquiry into the origin and development of current social problems with specific reference to social action taken to address these problems. Students will investigate one major problem using the resources from more than one social science discipline.

SBS 3063 Social and Behavioral Statistics
An introductory course that will focus on both descriptive and inferential statistics. Topics include measures of central tendency and variability, sampling distributions, the normal distribution, z-scores, correlation, regression, hypotheses testing, t-tests, ANOVA, and chi-square tests. SPSS software will be utilized for all statistical analyses. Prerequisite: Math 1503 or Math 1513.

SBS 3113 Qualitative Research Methods
An examination of various qualitative research methods employed in the social sciences. Students will learn to assess the strengths and weaknesses of a variety of methods, and how to utilize one or more methods appropriate to the degree option they have selected. Prerequisite: SBS 3013.

SBS 3213 Quantitative Research Methods
An examination of the various quantitative research methods utilized in the social sciences, with an emphasis on the logic of the research, conceptualization of problems, and the application of the methods. This course will specifically focus on experimental design, survey construction and analysis, and application of statistics. Prerequisite: SBS 3013.

SBS 4033 Internship I
Students work under the dual supervision of a faculty member and a site supervisor in a government office, museum or historical society, mental health or human welfare agency, law enforcement or judicial organization, or a charitable agency.

SBS 4043 Internship II
Students work under the supervision of a faculty member and a site supervisor in a government office, museum or historical society, mental health or human welfare agency, law enforcement or judicial organization, or a charitable agency.

SBS 4513 Senior Seminar: Capstone Experience
Students complete an original research project utilizing social scientific methods and knowledge from one or more of the core disciplines in the BSSS program (History, Environmental Studies, Political Science, Psychology, or Sociology). Prerequisite: SBS 3113 or SBS 3213.

Sociology
SOC 1113 Introduction to Sociology
Foundations of social interaction including patterns of social structure, culture, socialization, family, education, religion, economic and political structures, primary relationships, social differentiation, organization, deviance, collective behavior, and social change. Scientific methods and sociological theorists will be discussed.

SOC 1201 Career/Life Planning
An elective course designed to help the student develop a greater understanding of himself/herself and the meaningful world of work. Emphasizes career-planning steps.

SOC 2083 Current Topics in Sociology
This course will focus on current topics in sociology not covered in existing course offerings. Intended for the purpose of offering high interest course topics during the semester. It may be repeated with changes of topic. Content varies with instructor.

SOC 2123 Social Problems
A sociological approach to major social problems in contemporary American society. Emphasizes concepts of aging, health care, minorities, poverty, technology, work, and youth. A critical consideration of causes of social maladjustment and consideration for solving societal issues.

SOC 2133 Drug Abuse
A social scientific approach to the nature, role, and effects of chemical and psychological addiction in society. Explores a variety of addiction issues as they relate to the social institutions of family, education, politics, and medicine.
SOC 2213 Introduction to Human Ecology
The study of complex and varied patterns of interaction between people and the environment with special attention to concepts, concerns, and methods of Environmental Studies.

SOC 2353 General Anthropology
Introduction to the field of anthropology, emphasizing human evolution, human genetics, Old World archaeology, and the distribution of various breeding populations around the world. Prerequisite: SOC 1113 or instructor’s permission.

SOC 2363 Cultural Anthropology
The course focuses on patterns in human behavior and on culture as the way people live and adapt to their various situations. Emphasis is on the theory and methodology of cultural anthropology and the diversity of cultural patterns found throughout the world. Examples from a wide variety of cultures are presented in a variety of formats.

SOC 2813 Introduction to Latin America
An overview of the geography, history, cultural traditions, and political systems of Latin America.

SOC 3023 Juvenile Delinquency
The focus of this course is to examine the juvenile delinquency phenomenon through the historical context of delinquency and the changing legal environment (includes major court decisions that have transformed the juvenile system). Students will explore the theories of the causes of juvenile delinquency and discuss juvenile delinquency prevention and control programs. (Formerly CJ/SOC 2233)

SOC 3033 Marriage and the Family
A survey of changes in family systems over the years. Area of study includes courtship, love, mate selection, parenthood, and family problems. The course also examines cross-cultural comparisons and considers alternatives to traditional family forms. Emphasis is placed on the use of empirical evidence to evaluate popular beliefs.

SOC 3043 Social Ethics
Introduction to social ethics. This course focuses on ethical and religious values of societies as they serve as a basis for social, legal, and political decisions.

SOC 3053 Cultural Ecology
An examination of how humans have used the various aspects of the social structure to adapt to the physical environment. Current ecological theories will be utilized to examine social evolution from hunting and gathering to industrial societies. Prerequisite: Nine hours of social science credit.

SOC 3073 Criminology
Critical analysis of criminological theories. The examination of major types of crimes, victims, and criminal behavior. Other topics include definitions, incidents, and trends in criminal behavior and the response of law enforcement, judicial, and correctional systems. (Formerly SOC 2363)

SOC 3213 Minority Groups
The sociological study of race and ethnicity, including cultural characteristics, social structures, changes, and associated problems. This course will analyze the status of racial, ethnic, and other minority groups within their economic, legal, and social systems.

SOC 3223 Social Deviance
The structure, dynamics, and etiology of those behavior systems that are integrated around systemic violations of cultural norms. This course will study the perspectives on non-normative behavior, including the study of mental illness; abuse such as alcohol, drug, physical, and sexual; and alternative sexual lifestyles. Presents and evaluates competing theories of deviance and the social processes by which behaviors are defined as deviant and how those definitions affect the individual.

SOC (HIST) 3323 War and Society
The study of societies’ relationship with war, in particular: how warfare is viewed by different societies; why societies choose to wage war; how religion, culture, and literature affect society’s perspective of warfare; and the social consequences of waging war for winners and losers. Within the context of American society, this course will address the social impacts of various U.S. wars, and will take some time to explore the rise of the military-industrial complex and its effect on American society.

SOC 3333 Demography
This course is focused on the interaction between populations, resources, and the environment in the developed and the developing world.

SOC 3950 Special Topics in Sociology
A seminar in selected topics in sociology. Topics and credits may vary each time the course is offered (1-3 credit hours). May be repeated for credit with change in topic. Prerequisite: SOC 1113.

SOC 4013 Sociological Theory
A study of the great classical tradition in sociological theory and the expression of this tradition in contemporary theory. The course will include (but not be limited to) Weber, Marx, Durkheim, and Spencer. Prerequisites: Twelve hours of social science credit.

SOC 4023 Medical Sociology
The sociological study of class, race, ethnicity, and gender and their relationship to health, illness, and morbidity. The analysis of organization, value systems, and practice of medicine and the provisions of health care in the United States, including the study of etiology of disease, the social meaning and implication of health and illness in everyday life, role of the physician, patients, and the social processes of medical services and professionals.

Spanish

SPAN 1113 Beginning Spanish I
A beginning course in understanding, speaking, reading, and writing Spanish. Some exploration of the Hispanic culture.

SPAN 1223 Beginning Spanish II
Continued instruction in understanding, speaking, reading, and writing Spanish with expanded vocabulary and more complex sentence structures. Continued exploration of the Hispanic culture. Prerequisite: SPAN 1113 or equivalent.

SPAN 2113 Intermediate Spanish I
Consolidation and expansion of basic skills with the introduction of more advanced vocabulary and grammar. Prerequisite: SPAN 1223 or equivalent.
SPAN 2223 Intermediate Spanish II
Expansion and refinement of basic skills with added emphasis on self-expression and Hispanic culture. Prerequisite: SPAN 2113 or equivalent.

SPAN 3123 Advanced Conversation and Grammar
This course builds listening, speaking, reading and writing skills in the advanced Spanish student. Students read texts in Spanish and respond orally, elaborating their personal perspectives. Conversation in Spanish with the instructor and classmates, as well as reading and writing in Spanish, are required. Prerequisite: SPAN 2223 or equivalent.

SPAN 3223 Advanced Composition and Grammar
This course hones listening, speaking, reading and writing skills in the advanced Spanish student. Students listen to and read texts in Spanish, write essays, and give oral reports based on what they have learned in class and on their own outside interests. Reading, writing, listening and speaking are required. Prerequisite: SPAN 2223 or equivalent.

SPAN 4123 Advanced Spanish Grammar
Review of advanced grammatical structures, idiomatic expressions, and syntax to develop awareness of appropriate language usage. Prerequisite: SPAN 2223 or equivalent.

Special Programs

SP 2900 Directed Study
Directed readings or laboratory exercises in approved area. Prerequisite: instructor’s permission. (1-2 credit hours.)

SP 2950 Special Topics
Seminar in approved area of study. Content will be determined by the specific course offered. Prerequisite: instructor’s permission. (3-4 credit hours.)

SP 3800 Internship
The structured experience will lead to an internship for one semester in a government, nonprofit, or public/private facility. The experience must be approved by the faculty supervisor. Permission of instructor will be required to enroll. Repeatable up to 12 hours of credit. (3-12 credit hours.)

SP 3900 Independent Study
Research of current topics or problems involving library, laboratory, or field studies. Content will be determined by the needs and interests of the participants. Prerequisite: instructor’s permission. (1-2 credit hours.)

SP 3950 Advanced Topics
Current topic in approved area of study. Content will be determined by the specific course offered. Prerequisite: instructor’s permission. (3-4 credit hours.)

Speech

SPCH 1113 Speech Communication
Introduction to basic communication theory and practice with emphasis on effective listening, organizational skills, basic logic, and techniques of speech delivery in various situations.

Sport Management

SPMT 1003 Foundation of Sport Management
An introductory course exploring the history, development, and governance as well as current issues and trends in sport management. Emphasis will be placed on the regulations and impact of Title IX.

SPMT 2023 Sport Delivery Systems and Communication
Examination of the fundamental theories, practices, and communication necessary to deliver sport products and services to consumers. Prerequisite: SPMT 1003.

SPMT 3013 Marketing Sports
A survey of marketing strategies and promotional activities related to the sports industry including media relationships. Prerequisites: SPMT 1003.

SPMT 3213 Legal Aspects of Sport Management
An examination of legal principles, liability, dilemmas, and court cases relating to sport-specific issues within the context of managing sport services. Prerequisites: SPMT 1003.

SPMT 3233 Organization and Management of Athletic Programs
A study of principles, issues, and trends within the organization and management of athletic programs. Prerequisite: SPMT 1003.

SPMT 3423 Ethics in Sport Management
This course will examine the moral and ethical issues associated with the management of sport and sport organizations. Content will provide the student with theoretical base and systematic reasoning tools to address ethical dilemmas in a thoughtful, reflective manner and integrate ethical priorities with economic and administrative interests.

SPMT 4113 Sport Economics and Financing
A study of the economics and financing of the sports industry. Prerequisite: SPMT 1003.

SPMT 4116 Sporting Event and Facility Management
A study of sport venue, events, and event management. Field experience is included. Prerequisites: permission and Senior standing.

SPMT 4313 Leadership in Sport Organizations
A study of the economics and financing of the sports industry. Application of contemporary management and leadership concepts, principles, and issues related to the operation of sport organizations. Includes theories of organization and leadership. Prerequisites: permission and Senior standing.

SPMT 4323 Senior Capstone in Sport Management
Capstone course addressing the professional governance, standards, behaviors, and expectations of the sport manager. Students will investigate, analyze, and synthesize information using undergraduate skills developed through their educational process. Prerequisites: permission and Senior standing.

SPMT 4426 Sport Management Internship
Capstone supervised field experience in a sports agency designed to apply professional standards, behaviors, and expectations of the profession and meet the student's professional entry-level goals. Prerequisites: permission and Senior standing.
SPMT 5223 Sport Finance
Applications of finance in sound sport management and operations along with various funding methods for sport.

SPMT 5523 Sport Marketing
Marketing strategies and promotional activities related to the sport industry. Includes E-marketing methods.

Supply Chain Management

SCMT 3003 Supply Chain Management
The physical supply and distribution function in business management, including channel selection, transportation, facility location, and materials management; concentrates on the analytical and managerial methods necessary for the development and control of an integrated logistics system. Prerequisite: MKTG 3113. (Formerly MKTG 4223)

SCMT 3023 Logistics Management
This course explores logistics and supply chain activities emphasizing integration to transportation, inventory, warehousing, facility location, customer service, packaging and materials handling. Prerequisite: MKTG 3413.

SCMT 3033 Negotiations and Procurement
This course covers concepts in strategic negotiation, negotiation preparation, buyer-supplier relationship assessment, international negotiations, and negotiation simulation. Included in the course is the purchasing process, procurement cycle, purchasing research, relationships with suppliers, negotiation, and commodity planning. Cost, price, and value analysis are covered. Prerequisite: MKTG 3013.

SCMT (TECH) 3213 Enterprise Resource Management Systems
This course examines the role of technology in managing the supply chain. Students are provided hands-on experience in advanced software systems that build on top of enterprise resource planning systems. Major emphasis is placed on demonstrating how these systems result in supply chain cost reductions and service improvements. Prerequisite: MKTG 3013. (Formerly MFMG 3043)

SCMT 4013 Quality Management
Examines the principles and techniques for managing and improving quality in a manufacturing facility. Topics include new product design control, incoming material control, manufacturing process control, and continuous quality improvement. Prerequisite: MKTG 3413. (Formerly MFMG 4013)

SCMT 4033 Project Management
Examines the organization, planning, and controlling of projects and provides practical knowledge on managing project scope, schedule, and resources. Topics include project life cycle, work breakdown structure and Gantt charts, network diagrams, scheduling techniques, and resource allocation decisions. Concepts are applied through team projects and tutorials using project management software. Prerequisite: BADM 2843. (Formerly MFMG 3033)

Technology

TECH 1002 Introduction to Applied Technology
An orientation course designed to provide an industry overview as well as generalized skills. This course may be taken in any industrial specialty in which the student wishes to get basic skills in a wide range of areas. This course relates to any technical/industrial program.

TECH 1012 Safety
An orientation to the safety associated with the industry. Focuses on business/industry safety in the work place.

TECH 1022 Equipment/Tool Operation & Management
An orientation to the specialized equipment/tools within the class and industry. Focuses on the proper use of equipment/tools.

TECH 1030 Beginning Applications
Skills development in an applied setting. Beginning-level techniques are developed through design and completion of projects. (3-5 credit hours.)

TECH 1050 Intermediate Applications
Skills development in an applied setting. Intermediate-level techniques are developed through design and completion of projects. (3-5 credit hours.)

TECH 2020 Advanced Applications
Skills development in an applied setting. Advanced-level techniques are developed through design and completion of projects. (3-5 credit hours.)

TECH 2040 Special Topics
Topics that deal with important issues within the Industry. Includes problem-solving techniques, troubleshooting, etc. (3-5 credit hours.)

TECH 2060 Special Projects
Advanced skills used in the work place on special projects related to a student’s career goals. (3-5 credit hours.)

TECH 2083 Job Readiness
Development of skills in job seeking and keeping. The course prepares the student with successful techniques for finding gainful employment and in progressing once on the job.

TECH 2090 Field Internship
A capstone course designed to integrate academic and technical lectures and labs with business and industry work experience. (3-6 credit hours.)

TECH 3013 Leadership and Decision-Making Skills
A study of specific leadership and decision-making skills and their application to a business organization. Among the topics to be covered are characteristics of leaders, techniques of decision making, interpersonal skills, and other related topics.

TECH 3023 Emerging Technologies
A study of technology as it affects the lives of people in an industrial society. The course will also study the impact of technology on the work place.
TECH 3203 Introduction to Risk Management
Risk and safety hazards and techniques for identifying, analyzing, eliminating, or transferring the perils of risk. Includes current laws regarding risk and safety, workers’ compensation insurance, employer-employee relations, and employee mistreatment in the workplace.

TECH (SCMT) 3213 Enterprise Resource Management Systems
This course examines the role of technology in managing the supply chain. Students are provided hands-on experience in advanced software systems that build on top of enterprise resource planning systems. Major emphasis is placed on demonstrating how these systems result in supply chain cost reductions and service improvements. Prerequisites: MGMT 3013. (Formerly MFMG 3043)

TECH 3403 Renewable Energy Technology
This course examines the usefulness of various types of existing and emerging renewable energy technologies as they relate to the future of this planet. Topics will include solar systems, fuel cells, hydroelectric power, geothermal heat transfer, biofuels, wind energy, and energy conservation. Special consideration will be given to the economic and environmental issues. The impact of government policies will be also explored. Prerequisite: PHYS 1014.

TECH 3413 Accounting for the Renewable Energy Industry
A managerial accounting course with emphasis on accounting tools for managers in the renewable energy industry. Topics covered include: cost accounting, break-even point, profit analysis, variable costing, budgeting, cash flow, differential analysis, responsibility accounting, financial ratios, stocks, and bonds. Prerequisite: ACCT 2103.

TECH 3423 Fundamentals of Energy Management
Students will learn the basics of quantitative analysis in decision making and project management. The applied part of this course focuses on the development and management of enterprises in the renewable energy industry. Also consideration is given to methods for monitoring, controlling, and conserving energy. Prerequisite: TECH 3403.

TECH 4003 Business Data Communications Systems
Broad coverage of telecommunication and computer network types and protocols used to drive the diverse voice, video, and data needs of today’s business. Includes network vocabulary and the understanding of how telecommunication and network functions are used in today’s business environments. Prerequisite: MGMT 3423.

TECH 4013 Computer and Telecommunications Applications for Managers and Professionals
A course designed to introduce managers and professionals to specific applications of computer and telecommunications tools in business. Various hardware and software perspectives will be introduced to acquaint students with “real world” application of the concepts in business and industrial settings. Prerequisite: TECH 4003.

TECH 4113 Government Regulation of Business
An overview of the impact of governmental regulation on business and industry. Among the topics to be studied will be environmental, health, occupational, and safety regulations at both the state and federal levels.

TECH 4504 Practicum and Capstone Experience
Small group project that integrates the materials in required courses. Includes discussions about professional and ethical issues. Prerequisite: Completion of 90 percent of Tech program. (Formerly TECH 4500 and TECH 4503)