

## ACCOUNTING COURSES (ACT)

- ACT 2291 Principles of Accounting I (3)**  
Modern financial accounting theory and practices applied to sole proprietorships, partnerships, and corporations.
- ACT 2292 Principles of Accounting II (3)**  
Modern financial and managerial accounting theory and practices applied to an organization's liabilities, cash flows, planning, budgeting, and control. *Prerequisite: ACT 2291.*
- ACT 3391 Intermediate Accounting I (3)**  
Theory and applications of assets, liabilities, and owners' equity, revenues, expenses, and analytical process. *Prerequisite: ACT 2292.*
- ACT 3392 Intermediate Accounting II (3)**  
Theory and applications of assets, liabilities, and owners' equity, pensions, leases, earnings per share, and analytical process. *Prerequisite: ACT 3391.*
- ACT 3394 Governmental Accounting (3)**  
Municipal and governmental accounting; preparation and use of budgets, records, and statements. *Prerequisite: ACT 2292.*
- ACT 3395 Managerial/Cost Accounting I (3)**  
Manufacturing and distribution cost accounting, material, labor and overhead costs in job order and process cost accounting. These courses must be taken in sequence. *Prerequisite: ACT 2292.*
- ACT 3396 Accounting Information Systems (3)**  
Principles underlying establishment of complete accounting systems; applications to typical business organization; emphasis on the functions of control and protection. *Prerequisite: ACT 2292.*
- ACT 4435 International Accounting (3)**  
An overview of emerging issues related to international accounting and reporting of financial information across national boundaries. The course will address topics such as accounting and auditing standards, disclosure practices, and financial reporting in a global business environment. *Prerequisite: ACT 3392.*
- ACT 4491 Advanced Accounting (3)**  
Theory and applications of accounting for business combinations, branches and segments, partnerships, and foreign currency transactions and translations. *Prerequisite: ACT 3392.*
- ACT 4493 Guided Independent Study (1-3 credit hours per course per semester)**  
Supervised study. Additional information is indexed under Guided Independent Research and Study.
- ACT 4494 Income Tax Accounting I (3)**  
Principals and dictates of individual capital and taxation of individual income. *Prerequisite: ACT 2292.*
- ACT 4495 Income Tax Accounting II (3)**  
Tax laws and regulations for partnership, corporations, estates and fiduciaries. *Prerequisite: ACT 4494.*
- ACT 4496 Managerial/Cost Accounting II (3)**  
Manufacturing and distribution cost accounting, material, labor and overhead costs in job order and process cost accounting. These courses must

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*level courses in anthropology. This course does not count toward the 36-hour major.*

- ANT 3305 Introduction to Archaeology (3)**  
An examination of the methods and theory of traditional and contemporary approaches to archaeological research.
- ANT 3310 Cultural Anthropology (3)**  
An anthropological examination of human cultural development and a survey of both contemporary and past human cultures. May be taken for sociology credit.
- ANT 3311 Physical Anthropology (3)**  
An examination of human biological development from the beginning of mankind through the Pleistocene age using evidence from archaeology, paleontology, biology, genetics and osteology.
- ANT 3312 Field Techniques in Archaeology (3)**  
Instruction in survey and excavation methods and techniques used in the discipline of archaeology.
- ANT 3313 Laboratory Techniques in Archaeology (3)**  
Instruction in the methods and techniques used in the curation and analysis of cultural materials recovered from archaeological investigations.
- ANT 3320 Prehistory of North American Indians (3)**  
An examination of the aboriginal cultures of North American prior to the period of European contact based upon archaeological evidence.
- ANT 3321 North American Indians Since Contact (3)**  
An examination of aborig

achievement of specific skills. *Prerequisites: Junior or senior standing, with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which the study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Application forms are available in the office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research."*

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### ARABIC COURSES (ARB)

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- ARB 1101** **Introductory Arabic I (3-3)**  
Introduction to the Modern Standard Arabic language.
- ARB 1102** **Introductory Arabic II (3-3)**  
Introduction to the Modern Standard Arabic language. *Prerequisite: ARB 1101 or permission of instructor.*
- ARB 2201** **Intermediate Arabic I (3-3)**  
Progressive development of basic language skills in Arabic. *Prerequisite: ARB 1102 or permission of instructor.*
- ARB 2202** **Intermediate Arabic II (3-3)**  
Progressive development of basic language skills in Arabic. *Prerequisite: ARB 2201 or permission of instructor.*

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### ART AND DESIGN COURSES (ART)

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- ART 1133** **Visual Arts (2-2)**  
Visual arts and their relationship to human needs and aspirations. *NOTE: Credit for this course may not be applied toward any program in art.*
- ART 1134** **Honors Visual Arts (2-2)**  
Visual arts and their relationship to human needs and aspirations. Presentation of aesthetic, cultural and social issues related to art and its making. *NOTE: Credit for this course may not be applied toward any program in art.*
- ART 1145** **Foundations of Form and Space (3-3)**  
Introduction to the principles, elements, and concepts of two-dimensional space.
- ART 1150** **Foundations of Time and Space (3-3)**  
Introduction to the principles, elements, and concepts of three- and four-dimensional space.
- ART 2201** **Introductory Drawing (3-3)**  
Introduction to drawing with emphasis on traditional rendering materials and techniques.
- ART 2202** **2D Studio I (3-3)**  
Fundamental concepts in printmaking. Basic techniques in producing black and white multiples in relief, intaglio, serigraphy and lithography. *Prerequisites: ART 1145, ART 2201 or ART 2210, and ART 2230.*
- ART 2204** **3D Studio I (3-3)**  
Fundamental concepts in pottery and ceramics. Basic techniques in production and free form ceramics to include introduction to hand-building, wheel throwing, and glazing/firing techniques. *Prerequisites: ART 1145, AR T2201 or ART 2210, and ART 2230.*
- ART 2205** **3D Studio II (3-3)**  
Fundamental concepts in sculpture. Emphasis on traditional subtractive and additive techniques in a variety of media. *Prerequisites: ART 1145, ART 2201 or ART 2210, and ART 2230.*
- ART 2206** **2D Studio II (3-3)**  
Fundamental concepts in painting. Basic techniques in application using transparent and opaque painting media. *Prerequisites: ART 1145, ART 2201 or ART 2210, and ART 2230.*
- ART 2210** **e-Drawing (3-3)**  
Introduction to drawing with emphasis on developing rendering skills applied to digital technology.
- ART 2228** **Photo Studio I (3-3)**  
Introduction to the fundamentals of black and white darkroom photography.
- ART 2230** **Color and Technology (3-3)**  
Introduction to the principles and science of color and color applications in both colorant and digital environments.
- ART 2250** **Survey of Art History I (3-3)**  
Survey of the history of art from antiquity through the Gothic period.
- ART 2251** **Survey of Art History II (3-3)**  
Survey of the history of art from Renaissance through Realism.
- ART 3301** **Life Drawing (3-3)**  
Drawing the human form with emphasis on rendering mood and expression while learning skeletal and muscular structure. *May be repeated up to two times for credit (9 hours maximum). Prerequisite: ART 2201 or ART 2210.*
- ART 3302** **History of the Arts (3)**  
An analysis of examples of art from diverse periods with an emphasis on trends and patterns and the

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**ART 3310** <<dti>> **Time/Sound (3-3)**

Exploration of graphic design applied to multimedia. Students will learn to produce presentations

ment of personal artistic expression. *Prerequisite:*  
*ART 3330.*

**ART 4431 3D Studio IV (3-3)**

Content and issues in three-dimensional media.  
Studio/seminar experiences

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**AS 4413 National Security Affairs/Preparation for Active Duty II (3)**

The second of two courses that examine the national security process, regional studies, advanced leadership ethics, and Air Force doctrine. Special topics of interest focus on the military as a profession, officership, military justice, civilian control of the military, preparation for active duty, and current issues affecting military professionalism. Within this structure, continued emphasis is given to refining communication skills.

**AS L413 Leadership Laboratory II (1)**

Leadership laboratory is mandatory for AFROTC cadets, and it complements the AS 4413 course by providing cadets with advanced leadership experiences, giving students the opportunity to apply the leadership and management principles.

10 hours per week. *Prerequisites:* AT 4447, 3301. *Co-requisite:* AT 4448 (second-year status).

**AT 3360 Principles of Drug Therapy for Athletic Trainers (2-2)**

Acquaints the entry-level athletic training student with the therapeutic medications and the governing regulations most often used in the treatment of injuries and illnesses of athletes and the physically active population. *Prerequisites:* CHM 1142, L142, BIO 3347, L347, BIO 3348, L348; senior status.

**AT 3395 Care and Prevention of Athletic Injuries and Illnesses I (3-3)**

Acquaints the entry-level athletic training student with athletic training educational competencies related to risk management, injury prevention, assessment and evaluation, psycho-social intervention and referral and health care administration. *Prerequisite:* acceptance into ATEP (first-year status).

## **ATHLETIC TRAINING EDUCATION COURSES (AT)**

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**AT 1101 Orientation to Athletic Training Education (1-1)**

Acquaints the Pre-Athletic Training Education student with the six cognitive domains of athletic training education and the athletic training education competencies.

**AT 2201 Clinical Experiences in Athletic Training (1-3)**

Acquaints the entry-level athletic training student with athletic training educational competencies in the clinical proficiencies in Athletic Emergency Plan (EAP), CPR, basic life support techniques, use of crutches and canes, use of immobilizing devices, universal precautions, OSHA guidelines, wound care, vital signs and the knowledge of hospital and clinical settings. Clinical hours will not exceed 10 hours per week. *Prerequisite:* Acceptance into ATEP (first-year status).

**AT 2202 Clinical Experiences in Athletic Training (1-3)**

Acquaints the entry-level athletic training student with athletic training educational competencies and clinical proficiencies in anthropometric measurement, appropriate examinations, screening procedures, environmental conditions, record keeping, prevention and protective taping and bracing, and the standard operations and procedures of an athletic training room. Clinical hours will not exceed 10 hours per week. *Prerequisites:* AT 3395, L395, AT 3396, L396, AT 2201 (first-year status).

**AT 3301 Clinical Experiences in Athletic Training (1-3)**

Acquaints the entry-level athletic training student with athletic training education competencies in the clinical proficiencies as they relate to the use of therapeutic modalities. Clinical hours will not exceed 10 hours per week. *Co-requisite:* AT 4447 (second-year status).

**AT 3302 Clinical Experiences in Athletic Training (1-3)**

Acquaints the entry-level athletic training student with athletic training education competencies in the clinical proficiencies as they relate to the use of therapeutic exercise. Clinical hours will not exceed

*Prerequisites: AT 3396, L396. Co-requisite: AT 3397 (first-year status).*

- AT 4447 Therapeutic Modalities (2-2)**  
Acquaints the entry-level athletic training student with athletic training educational competencies as they relate to the use of therapeutic modalities. *Prerequisites: AT 3397, L397 (second-year status).*
- AT 4448 Therapeutic Exercises (2-2)**  
Acquaints the entry-level athletic training student with the knowledge of the athletic training educational competencies as they relate to the use of therapeutic exercises. *Prerequisites: AT 3301, 4447 (second-year status).*
- AT 4401 Clinical Experiences in Athletic Training (2-3)**  
Acquaints the entry-level athletic training student with athletic training educational competencies in the clinical proficiencies as they relate to pharmaceutical products, poison control services, administration of bronchodilators and epinephrine, and recognition of the signs, symptoms and predisposing conditions associated with general medical diseases and conditions. Clinical hours will not exceed 20 hours per week. *Co-requisite: AT 3349 (third-year status).*
- AT 4402 Athletic Training Field Experience (12-12)**  
Acquaints the entry-level athletic training student with the opportunity to gain practical experience within a clinical and or traditional setting. The student will apply didactic academic preparation at their chosen professional setting. *Prerequisite: AT 4401.*

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## **BIOLOGY COURSES (BIO)**

- BIO 1100 Principles of Biology (3)**  
Biological principles including chemistry of life, cell structure and function, bioenergetics, cell reproduction, heredity, and ecology. Credit for this course cannot be applied toward any curriculum in biology. *Co-requisite: BIO L100.*
- BIO L100 Principles of Biology Lab (1-2)**  
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- BIO L308 Vertebrate Zoology Lab (1-3)**  
Taxonomy, structure, life histories, and behavior of vertebrates. *Prerequisites: BIO 1101, L101. Co-requisite: BIO 3308.*
- BIO 3320 Genetics (3)**  
Principles of heredity, from basic Mendelian concepts through molecular genetics. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143, MTH 1112 or equivalent and MTH 2210 or equivalent, or permission of chair. Co-requisite: BIO L320.*
- BIO L320 Genetics Lab (1-3)**  
Basic laboratory techniques in genetics, including the genetics of common laboratory organisms. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143, MTH 1112 or equivalent and MTH 2210 or equivalent, or permission of chair. Co-requisite: BIO 3320.*
- BIO 3325 Plant Form and Function (3)**  
The development, structure, and function of plant tissues and organs. Primary emphasis on anatomical, morphological, and physiological features of angiosperms. *Prerequisites: BIO 1101, L101. Co-requisite: BIO L325.*
- BIO L325 Plant Form and Function Lab (1-3)**  
The development, structure, and function of plant tissues and organs, with the primary emphasis on structures. *Prerequisites: BIO 1101, L101. Co-requisite: BIO 3325.*
- BIO 3326 Plant Diversity (3)**  
Taxonomy, structures, reproduction, and life cycles of fungi, algae, bryophytes, and vascular plants. *Prerequisites: BIO 1101, L101. Co-requisite: BIO L326.*
- BIO L326 Plant Diversity Lab (1-3)**  
Taxonomy, structures, reproduction, and life cycles of fungi, algae, bryophytes, and vascular plants. *Prerequisites: BIO 1101, L101. Co-requisite: BIO 3326.*
- BIO 3347 Human Anatomy and Physiology I (3)**  
Anatomical terminology, a survey of cell types and tissues, and detailed coverage of the integumentary, skeletal, muscular, and nervous systems of humans. *Prerequisites: BIO 1100, L100 or BIO 1110, L110 and CHM 1142, L142 or CHM 1115, L115. Co-requisite: BIO L347.*
- BIO L347 Human Anatomy and Physiology I Lab (1-3)**  
Anatomical terminology, a survey of cell types and tissues, and detailed coverage of the integumentary, skeletal, muscular, and nervous systems of humans. *Prerequisites: BIO 1100, L100 or BIO 1110, L110 and CHM 1142, L142 or CHM 1115, L115. Co-requisite: BIO 3347.*
- BIO 3348 Human Anatomy and Physiology II (3)**  
The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems of humans. *Prerequisites: BIO 3347, L347. Co-requisite: BIO L348.*
- BIO L348 Human Anatomy and Physiology II Lab (1-3)**  
The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems of humans. *Prerequisites: BIO 3347, L347. Co-requisite: BIO 3348.*
- BIO3372 Microbiology (3)**  
Fundamentals of microbiology including historical perspectives, anatomy and growth of bacteria, microbial metabolism, diseases caused by them, and interrelationships of microorganisms with the environment. *Prerequisites: BIO 1100, L100 or 1110, L110 and CHM 1142, L142 or 1115, L115. Co-requisite: BIO L372.*
- BIO L372 Microbiology Lab (1-3)**  
Fundamentals of microscopy, sterile techniques, staining procedures, isolation techniques, identification of unknowns, and biochemical tests. *Prerequisites: BIO 1100, L100 or 1110, L110 and CHM 1142, L142 or 1115, L115. Co-requisite: BIO 3372.*
- BIO 3382 Immunology (3)**  
The cellular and humoral system involved in the host response and immunity of organisms to foreign substances. Mechanisms of humoral immunity, cellular immunity, and hypersensitivities. *Prerequisites: BIO 3372, L372, CHM 3342, L342. Co-requisite: BIO L382.*
- BIO L382 Immunology Lab (1-3)**  
Analysis of immunological techniques used in research and clinical settings. *Prerequisites: BIO 3372, L372, CHM 3342, L342. Co-requisite: BIO 3382.*
- BIO 3386 Hematology (3)**  
The study of blood cells and blood-forming organs under normal and diseased states. *Prerequisites: BIO 3320, L320, 3372, L372, CHM 3342, L342. Co-requisite: BIO L386.*
- BIO L386 Hematology Lab (1-3)**  
Cytological and instrumental analyses of blood cells and blood forming organs. Hematological analysis of normal and diseased states. Introduction to blood-banking procedures. *Prerequisites: BIO 3320, L320, 3372, L372, CHM 3342, L342. Co-requisite: BIO 3386.*
- BIO 4402 Spring Flora (4-7)**  
Survey of vascular plants from different habitats in southeast Alabama. Principles of plant taxonomy, including history and systems of classification and nomenclature, the use of dichotomous keys, and general herbarium techniques. Emphasis is placed on plant identification and habitat types. *Prerequisites: BIO 1101, L101, 2229, L229.*



**BIO 4405 Entomology (3)**  
Orders of insects with the emphasis on morphology, taxonomy, and life cycles. *Prerequisites:* *BIO 1101, L101. Co-requisite: BIO L405.*

**BIO L405 Entomology Lab (1-3)**

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**BIO L432 Comparative Vertebrate Anatomy Lab (1-3)**  
Detailed study of the shark, mudpuppy, and cat with emphasis on structural and functional mor-

- BIO 4478 Cell Biology (3)**  
Cell structure and function with the emphasis on biochemical and molecular mechanisms. Topics include cell division, movement, differentiation, and recognition. *Prerequisites: BIO 3320, L320, 3372, L372, CHM 3343, L343. Co-requisite: BIO L478.*
- BIO L478 Cell Biology Lab (1-3)**  
Experimental approaches for studying cells at the biochemical and molecular levels. *Prerequisites: BIO 3320, L320, 3372, L372, CHM 3343, L343. Co-requisite: BIO 4478.*
- BIO 4479 Environmental Assessment (3)**  
An examination of theory and practices required in performing stream environmental assessment as currently practiced by state and federal agencies in their attempt to preserve biological integrity. Sustainable management of natural resources and a systems approach to environmental problem solving will be emphasized. Topics covered include water quality, habitat assessment, indicator species used in ecological inventory with a concentration on macro invertebrate and fish assemblages, and the index of biological integrity. *Prerequisites: BIO 1101, L101; 2202, L202 or 2229, L229. Co-requisite: BIO L479.*
- BIO L479 Environmental Assessment Lab (1-3)**  
Laboratory instruction and hands-on field training regarding stream environmental assessment as currently practiced by state agencies in their attempt to preserve biological integrity. Topics covered include measurement of water quality, habitat, and practice sampling techniques, with a concentration on fish and macro invertebrate assemblages. In addition, students will learn the use of the index of biological integrity using their own collections of fish assemblages. *Prerequisites: BIO 1101, L101; 2202, L202 or 2229, L229. Co-requisite: BIO 4479.*
- BIO 4480 Histology (3)**  
Microscopic anatomy and function of cell types and tissues of mammalian organs. *Prerequisites: BIO 1101, L101. Co-requisite: BIO L480.*
- BIO L480 Histology Lab (1-3)**  
Microscopic anatomy of cell types and tissues of mammalian organs. *Prerequisites: BIO 1101, L101. Co-requisite: BIO 4480.*
- BIO 4481 Methods and Materials for the Secondary Teacher (3)**  
A survey of teaching methods and materials appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evaluation in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, teaching methods, selections organization and use of biology/science materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course. *Prerequisite: Admission to TEP.*
- BIO 4482 Molecular Biology (3)**  
Fundamental principles of chromosomal organization and gene expression, with emphasis on the structure and function of nucleic acids and proteins. *Prerequisites: BIO 3320, L320, 3372, L372, CHM 3343, L343. Co-requisite: BIO L482.*
- BIO L482 Molecular Biology Lab (1-3)**  
Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings. *Prerequisites: BIO 3320, L320, 3372, L372, CHM 3343, L343. Co-requisite: BIO 4482.*
- BIO 4488-4489-4490 Internship in Environmental Science (1 to 3 credit hours per course per semester)**  
Supervised work experience in a governmental agency, business or industry, public service organi-

**BUS 4491-4492 Guided Independent Research (1 - 3 credit hours per course per semester)**

Additional information is indexed under Guided Independent Research and Study. *NOTE:* This course may not be substituted for any required course.

**BUS 4493-4494 Guided Independent Study (1 - 3 credit hours per course per semester)**

Additional information is indexed under Guided Independent Research and Study. *NOTE:* This course may not be substituted for any required course. Also see index for "Independent Study and Research."

**BUS 4499 Internship (1-3 credit hours per course per semester)**

Additional information is indexed under Guided Independent Research and Study. *NOTE:* This course may not be substituted for any required course.

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**CROSS DISCIPLINE COURSES (CDC)**


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Please consult the index of this catalog to locate additional information regarding cross discipline courses and/or experiential learning credit.

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**CHINESE (MANDARIN) COURSES (CHI)**


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**CHI 1101 Introductory Chinese (Mandarin) I (3-3)**

Introduction to the Chinese (Mandarin) language.

**CHI 1102 Introductory Chinese (Mandarin) II (3-3)**

Introduction to the Chinese (Mandarin) language. *Prerequisite:* CHI 1101 or permission of instructor.

**CHI 2201 Intermediate Chinese (Mandarin) I (3-3)**

Progressive development of basic language skills in Mandarin Chinese. *Prerequisite:* CHI 1102 or permission of instructor.

**CHI 2202 Intermediate Chinese (Mandarin) II (3-3)**

Progressive development of basic language skills in Mandarin Chinese. *Prerequisite:* CHI 2201 or permission of instructor.

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**CHEMISTRY COURSES (CHM)**


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**CHM 1115 Survey of Chemistry (3)**

The course will provide an overview of some of the basic concepts and principles of chemistry. Starting with the structure of the atom, the course will proceed on to basic chemical reactions, the formation of ions, states of matter, chemical equilibrium, and chemical bonding, and will incorporate examples from the biological sciences. *Co-requisite:* CHM L115.

**CHM L115 Survey of Chemistry Lab (1 - 2)**

The laboratory sessions will provide an overview of some of the basic concepts and techniques of gen-

eral chemistry experiments. The students will conduct experiments that illustrate the concepts and principles learned in the Survey of Chemistry course lectures. *Co-requisite:* CHM 1115.

**CHM 1142 General Chemistry I (3)**

Emphasis is placed on the periodic table and stoichiometry, including chemical properties, physical states, and structure. *Prerequisite:* Pass MTH 1112 with at least a C (or a score of 0, 1, or 5 on the math placement exam). *Co-requisite:* CHM L142.

**CHM L142 General Chemistry I Laboratory (1 - 3)**

Experiments dealing with the periodic table, atomic structure, the gas laws, and stoichiometry. *Co-requisite:* CHM 1142.

**CHM 1143 General Chemistry II (3)**

Acid-base theory, solutions, chemical equilibria, thermodynamics, kinetics, and electrochemistry. *Prerequisites:* CHM 1142 and L142. *Co-requisite:* CHM L143.

**CHM L143 General Chemistry II Laboratory (1 - 3)**

Experiments in acid-base theory, solutions, chemical equilibria, thermodynamics, kinetics, and electrochemistry. *Co-requisite:* CHM 1143.

**CHM 2242 Analytical Chemistry (3)**

The theoretical principles of modern quantitative wet-chemical methods for determining composition and concentration with rigorous treatment of solution equilibria. *Prerequisites:* CHM 1143 and L143. *Co-requisite:* CHM L242.

**CHM L242 Analytical Chemistry Laboratory (1 - 3)**

The practice of modern quantitative wet-chemical techniques in analytical chemistry. *Co-requisite:* CHM 2242.

**CHM 3342 Organic Chemistry I (3)**

An introduction to the chemistry of carbon compounds that develops the theoretical principles underlying organic materials. *Prerequisites:* CHM 1143 and L143. *Co-requisite:* CHM L342.

**CHM L342 Organic Chemistry I Laboratory (1 - 3)**

Experimental techniques and skills for preparing, manipulating, and reacting organic molecules. *Co-requisite:* CHM 3342.

**CHM 3343 Organic Chemistry II (3)**

A continuation of CHM 3342 with emphasis on modern organic synthesis. *Prerequisites:* CHM 3342 and L342. *Co-requisite:* CHM L343.

**CHM L343 Organic Chemistry II Laboratory (1 - 3)**

Experimental techniques and skills for preparing, manipulating, and reacting organic molecules. *Co-requisite:* CHM 3343.

**CHM 3350 Principles of Physical Chemistry (3)**

An introduction to the principles of chemical thermodynamics, reaction kinetics and chemical equilibrium. *Prerequisites: CHM 3343; PHY 2253 and PHY L253, or PHY 2263 and PHY L263. Co-requisite: CHM L350.*

**CHM L350 Principles of Physical Chemistry Laboratory (1-3)**

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**CHM 4493-4494 Guided Independent Study (1 - 3 credit  
hours per course per semester)**  
*See index for "Independent Study and Research."*

**CHM 4499 Senior Seminar (1 - 3)**

tion and methods of law enforcement, jurisprudence, correctional policies, and practices. Theoretical frameworks, models, and propositions addressing crime across various societies are also considered.

- CJ 4421 Ethics in Criminal Justice (3)**  
An introduction to concepts of ethics and an examination of contemporary ethical issues in the field of criminal justice.
- CJ 4430 Selected Topics in Criminal Justice (3)**  
An examination of a criminal justice topic chosen for its current or special interest and importance and that is not given in-depth coverage in other courses; selection topics will vary with each course offering (although a particular topic may be offered more than once.)
- CJ 4435 Grant Writing (3)**  
A detailed examination of how to apply to governmental and private entities for funding of various programs and projects in the field of criminal justice.
- CJ 4440 Terrorism (3)**  
A critical examination and analysis of major issues, definitions, and controversies associated with the development of terrorism in the modern world. Historical, religious, and psychological and sociological aspects and explanations of terrorism will be covered, along with the characteristic means and methods terrorist groups employ.
- CJ 4442 Criminal Investigation and Evidence (3)**  
A detailed examination of what is necessary to solve criminal cases and prove guilt beyond a reasonable doubt in court. Emphasis on leadership and management actions taken to enhance investigative efforts in law enforcement operation.
- CJ 4445 Current Issues in Law Enforcement Operations and Administration (3)**  
A detailed examination of applied concepts of leadership and problem solving in law enforcement operations and administrations. Special emphasis is attached to current problems surfacing in law enforcement.
- CJ 4446 Current Issues in Correctional Operations and Administration (3)**  
A detailed examination of applied concepts of leadership and problem solving in corrections and administration. Special emphasis is attached to current problems surfacing in corrections.
- CJ 4447 Current Issues in Legal Systems Operation and Administration (3)**  
A study of the critical issues and concepts involved in modern court administration, including the law governing the presentation of evidence in the trial of criminal cases, analysis of the role of law, and

**CLASSICS COURSES (CLA)**

- CLA 2260 Classical Mythology (3)**  
Myths of the Greeks and Romans and their influence.
- CLA 2290 Classical Literature in English Translation (3)**  
Greek and Roman masterpieces as expressions of humanity. *Prerequisites: ENG 1101, 1102.*
- CLA 3311 Civilization of Greece (3)**  
Historical and cultural achievements of the Greeks and their legacy to the modern world. *Note: May be taken for credit as an elective in the Department of History.*
- CLA 3312 Civilization of Rome (3)**  
Historical and cultural achievements of the Romans and their legacy to the modern world. *Note: May be taken for credit as an elective in the Department of History.*
- CLA 3330 Classical Epic (3)**  
Homer's *Iliad* and *Odyssey*, Virgil's *Aeneid*, and the epic tradition.
- CLA 3350 Classical Drama (3)**  
The ancient theatre and its influence with selected plays by Greek and Roman playwrights.
- CLA 4400 Selected Topics in Classics (3)**  
Selected topics in classical studies generally not covered in other courses. *Note: May be repeated once for credit.*
- CLA 4491 Guided Independent Research (1 to 3 credit hours per course per semester)**  
Additional information is indexed under Guided Independent Research and Study.
- CLA 4492 Guided Independent Research (1 to 3 credit hours per course per semester)**  
Additional information is indexed under Guided Independent Research and Study.
- CLA 4493 Guided Independent Study (1 to 3 credit hours per course per semester)**  
Additional information is indexed under Guided Independent Research and Study.
- CLA 4494 Guided Independent Study (1 to 3 credit hours per course per semester)**  
Additional information is indexed under Guided Independent Research and Study.

**COMMUNICATION COURSE (COM)**

- COM 1110 Effective Communication (3)**  
Practice in both oral and written communications. Focuses on improvement and development of present listening, speaking, reading and writing abilities and their applications in both academic and professional settings. *Prerequisite: placement.*

**COMPUTER SCIENCE COURSES (CS)**

- CS 2244 Computer Programming I (3)**  
An introduction to a programming language. Programming fundamentals include program structure, assignment, data types, repetition, input/output, flow of control, and functions. Program design development and testing is emphasized. *Prerequisite: MTH 1112.*
- CS 2260 Computer Programming II**  
A continuation of Computer Science I to include advanced programming techniques including application of arrays and advanced input/output. Students design, implement, and test a number of moderately large programs. *Prerequisites: CS 2244 and MTH 1125 or 2201.*
- CS 2261 Foundations of Computer Science Concepts (3)**  
A broad perspective of computer science concepts intended as preparation for more in-depth coverage in higher-level courses. Topics include machine and assembly language programming, computer system organization and operation, logic circuits, finite-state diagrams and programming language grammar. *Prerequisite: CS 2244.*
- CS 2262 Business Systems Programming (3)**  
The study and application of a business-oriented programming language. Students apply a structured, multiphase program development process



**CS 3325 Operations Research (3)**

Introduction to operations research, linear programming, simplex-based sensitivity analysis and duality, linear programming applications, network models, simulation, waiting line models, Markov processes, forecasting, and inventory models. *Prerequisites: CS 3313, MTH 1126.*

**CS 3329 Analysis of Algorithms (3)**

Alternative techniques to solve computer science problems are presented. Problems include sorting, searching, and graph traversal, lists, ordered lists, linked lists, stacks, queues, and trees. These concepts are presented within an object-oriented framework. *Prerequisite: CS 3323.*

**CS 3330 Data Structures and Algorithms (3)**

A course in fundamental data structures concepts and alternative techniques for solving real-world problems in computer science. Concepts and application covered include analysis of data representation and associated algorithms, including linked lists, queues, stacks, arrays, graphs, trees, searching, sorting, string matching, and the application of recursive techniques. The course will place an emphasis on the implementation of various algorithms and data structures. *Prerequisites: CS 22608.2(-di scier0pn[linques)n[lld0.8(ks)4.5( a)5.8(D{Prer)9.Twber)4. ng matchi)Tj10.31T\*puter s*

- CS 4447      **Systems Analysis and Design (3)****  
Study of the analysis of computer-based information systems. Emphasis is placed on analysis, specifications development, design, and development of information systems, including the software and databases that support the business needs of organizations. Both data-oriented and process-oriented design methods are covered. Topics include the systems analyst, the systems development life cycle, methodologies, development technology, systems planning, project management, systems analysis, systems design, systems implementation, and systems support. *Prerequisite: CS 3323 or CS 3330.*
- CS 4448      **Operating Systems (3)****  
An overview of operating system functions and components. Issues include process definition, scheduling, and memory management. Various modern operating systems are compared. *Prerequisites: CS 4445 and CS 3323 or 3330.*
- CS 4449      **Applied Networking (3)****  
Computer networks and th

forensics presentations or critical analyses of language arts subjects. Includes focus on standards of professional communication and fine arts organizations as well as graduate and/or professional school opportunities. Also includes requirement for completion of 20 attendance credits at communication and fine arts events that may be earned during the first two years of enrollment. Special arrangements through department evaluation for transfer students.

**DRA 3313 Creative Drama (2)**

Study and application of the techniques of creative drama and children's theatre.

**DRA 3315 Audition and Portfolio Techniques (1-2)**

A study of the practices and tools of the actor/designer/technician in the development of the professional audition. It includes the resume, headshot, interview, prepared monologues, and portfolio. *Prerequisite: DRA 3301, 2245, or permission of instructor.*

**DRA 3316 Acting II (2-3)**

A study of advanced concepts of acting, focusing on script analysis and character development along with further study of voice, movement, and scene dynamics. *Prerequisite: DRA 3301 and SPH 2251 or permission of instructor.*

**DRA 3321 Scenic Design (3-3)**

The principles and techniques of drafting and designing in a variety of theatrical spaces. *Prerequisite: DRA 2221 and completion of the DRA 2245 rotation or permission of the instructor.*

**DRA 3330 Special Topics in Theatre (1-3 hours variable credit)**

Examination of selected topics in theatre not included in the established curriculum. Content may be of a historical, thematic, technological, design, or specialized performance nature. May be repeated for credit.

**DRA 3331 Costume Design (3-3)**

A study of the theory, principles, and techniques of costume design applied to a series of theatrical projects. *Prerequisite: Completion of the DRA 2245 rotation or permission of the instructor.*

**DRA 3344 Lighting Design (3-3)**

A study of the principles of lighting design and equipment applications. Also covers drafting techniques for lighting. *Prerequisite: DRA 3304 and completion of the DRA 2245 rotation or permission of the instructor.*

**DRA 3345 Advanced Stagecraft Lab (1-3)**

A continuation of Stagecraft Lab designed for the upper level student. *Prerequisites: DRA 2245 rotation or permission of instructor.*

**DRA 3350 Script Analysis (2-2)**

Focuses on the nature of the text, playwright's purpose, dramatic structure, and style. The course will examine how the actor, director, designer, and technician

approach a play and how that understanding translates into the staging.

**DRA 3352 Sound Techniques (2-2)**

A study of digital and analog recording techniques, recording equipment, and application.

**DRA 3354 Rendering Techniques for the Theatre (2-2)**

A study and application of traditional and experimental techniques for theatrical rendering, including watercolor, markers, pastels, pencils, and other media.

**DRA 4443 Theatre History I (3-3)**

Through the study of literature and dramaturgy, this course traces the history of theatre from the origins of drama to English Restoration drama of the 18th century. *Prerequisite: Completion of ENG 2205.*

**DRA 4444 Theatre History II (3-3)**

Through the study of literature and dramaturgy, this course traces the history of the theatre from the 19th century to the present. *Prerequisite: Completion of ENG 2206*

**DRA 4451 Directing I (3-3)**

Script analysis and directing principles with studies in the direction of scenes from contemporary plays. *Prerequisite: DRA 3301.*

**DRA 4452 Directing II (2-3)**

Advanced study of directing, extending to period styles and culminating with the production of a one-act play. *Prerequisites: DRA 3301 and DRA 4451.*

**DRA 4455 Theatre Senior Capstone (2)**

Comprehensive exit assessment of student competencies in theatre. The student will develop a major field-related project, pass an exit exam, complete a program assessment and take the Praxis II in the theatre content area. Project proposals must be submitted prior to the semester in which the student will graduate. *Prerequisites: DRA 3301 and DRA 4451.*



**ECONOMICS COURSES (ECO)**

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**ECO 2251 Principles of Macroeconomics (3)**

*plication forms are available in the Office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research."*

**EDU 4493-4494 Guided Independent Study (1-3)**

Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills. *Prerequisites: junior or senior status, permission of guiding professor, approval of department chairperson and the dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."*

**EDU 4499 Technology Across the Curriculum (3)**

This course prepares the student to use a variety of technologies in developing curriculum and planning instruction for diverse learners in grades K-6. Attention is given to the history of technology, software selection and the integration of technology into the curriculum by matching technology resources and tools to instructional needs.

**ELE 4454 Internship Seminar for Elementary Education (3)**

This course provides seniors an opportunity during internship to examine broad educational issues and concerns, topics on the state and local levels and those of personal interest. The scope of the course ranges from juvenile law, classroom management professionalism, professional development for teachers and other course topics. *Prerequisite: Admission to TEP. Co-requisite: ELE Internship.*

**ELE 4474 Internship in Elementary Education (9)**

The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. *Prerequisite: Admission to TEP. Co-requisite: ELE 4454.*

**ELE 4491-4492 Guided Independent Research (1-3)**

Undergraduate research with attention to critical evaluation of research techniques, methods and procedures. *Prerequisites: junior or senior stand-*

## **ELEMENTARY EDUCATION COURSES (ELE)**

**ELE 3360 Teaching Social Science in the K-6 Classroom (3)**

This course provides a study of the varied dimensions of instruction in social sciences. Emphasis is placed on appropriate instruction and resources, including technology for the instruction of students in grades K-6. *Prerequisite: Admission to TEP.*

**ELE 3361 Teaching Natural Science in the K-6 Classroom (3)**

This course provides a study of the varied dimensions of instruction in natural sciences. Emphasis is placed on appropriate instruction and resources, including technology for the instruction of students in grades K-6. *Prerequisite: Admission to TEP.*

**ELE 3362 Teaching Mathematics in the K-6 Classroom (3)**

This course provides a study of the varied dimensions of instruction in mathematics. Emphasis is placed on appropriate instruction and resources, including technology for the instruction of students in grades K-6. *Prerequisites: Admission to TEP, completion of MTH 2251 and 2252 with a grade of C or better.*

**ELE 4401 Integrated Program (3)**

This course is designed as a culminating course for Elementary Education students to examine the integrated nature of the ELE program. This course includes extensive laboratory experiences where students interact with diverse learners as they plan, implement, and evaluate integrated curriculum including technology and the total ELE program. *Prerequisite: Admission to TEP and completion of a minimum of 15 hours in the teaching field.*







including the manner in which organizational hierarchies, purposes, and stylistic conventions interact with the writing process. Professional literature and professional associations concerned with improving communications within students' disciplines. *Prerequisite: ENG 2260.*

**ENG 3366 Professional Document Design (3)**

Overview of the fundamental concepts and techniques of information design and production for both print and online documents, including the coordination of text, typography, and graphics; principles of audience analysis, usability, and readability; and an introduction to computer software for desktop publication and web design. *Prerequisite: ENG 2260.*

**ENG 3371 Literature for Adolescents (3)**

Principles of and practice in the selection of literature for upper-elementary and for junior and senior high school students, with attention given to multicultural literature. *Note: No credit toward English major or minor. Credit applied only to middle school education certification program in English. Prerequisite: 6 semester hours of 2000-level English courses*

**ENG 4400 Selected Topics in Literature and/or Professional Writing (3)**

Study of a topic of special interest and importance not covered in regularly offered courses in English. *Prerequisite: 6 semester hours of 2000-level English courses*

**ENG 4401 Chaucer (3)**

Study of Chaucer's major poetry.

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*NOTE: Only one dramaturgy course may be used in English major or minor.*

### **ENG 4423 Dramaturgy II (3)**

Continuation of study of selected classical, period, and contemporary plays, with emphasis on dramatic techniques, character development, staging, and production. List of plays may vary with each offering. May require attending local productions during rehearsal and regular performances. *Prerequisite: 6 semester hours of 2000-level English courses. NOTE: Only one dramaturgy course may be used in English major or minor.*

### **ENG 4425 Modern Novel (3)**

Study of representative novels written in English in the 20th and 21st centuries. *Prerequisites: 6 semester hours of 2000-level English courses*

### **ENG 4426 Modern Poetry (3)**

Study of 20th- and 21st-century poetry. *Prerequisite: 6 semester hours of 2000-level English courses*

- ENG 4481 Methods and Materials for the Secondary Teacher (3)**  
 A survey of teaching methods and materials appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evaluation in the public schools, collaboration with special education teacher evaluation in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, teaching methods, selections organization and use of English language arts materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course. *Prerequisite: Admission to TEP.*
- ENG 4488 Seminar in Professional Writing Portfolio Development (3)**  
 Senior seminar, and development of a professional portfolio containing carefully selected materials that demonstrate seniors' mastery of specific writing capabilities and skills. *Prerequisite: senior class standing, ENG 2260, and completion of at least three required courses and three electives in the major, or permission of instructor.*
- ENG 4489 Internship (3)**  
 Practical experience involving writing and editing skills while working under the supervision of the Alabama Literary Review staff. *Prerequisite: ENG 3352-3353 or permission of instructor*
- ENG 4490 Professional Writing Internship (3)**  
 Writing Practicum/Internship at a local industry, publisher, arts or public agency. Provides workplace experiences in solving problems in writing, including those of career preparation and development. *Prerequisite: ENG 2260, and completion of at least three required courses and three electives in the major, or permission of instructor.*
- ENG 4491-94 Guided Independent Research and Study (3)**  
 Thorough examination of material on a selected subject, requiring a documented research paper.





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**GEM L367 Digital Images in GIS (1 Credit Hour)**

This laboratory provides the Geomatics/GIS student the opportunity to gain experience with digital

design project involving the use of large-scale topographic maps will be assigned. *Co-requisite:* GEM 4409.

**GEM 4495 Cooperative Work Experience I (2)**

The geomatics student may register for GEM 4495 after being hired by an eligible employer participating in the Cooperative Work Experience Program. After completion of the semester, the student is expected to submit a written report to the Geomatics Program Coordinator detailing the work experience and present a brief oral report to his/her peers in the following semester in a scheduled geomatics class.

**GEO 4435 Historical Geography of North America (3)**

An analysis of the physical and cultural factors in the development of North America from early European settlement to the present. *Prerequisite: Twelve hours of geography or history.*

**GEO 4491-4492 Guided Independent Research (1 to 3 credit hours per course per semester)**

Undergraduate research with attention to critical evaluation of research techniques, methods and procedures. *Prerequisites: Junior or senior standing with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which the study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Application forms are available in the office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research."*

**GEO 4493-4494 Guided Independent Study (1 to 3 credit hours per course per semester)**

Supervised study through field and laboratory projects, guided readings, creative endeavors or achievement of specific skills. *Prerequisites: Junior or senior standing, with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which the study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Application forms are available in the office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research."*

**GEO 4498 Honors Independent Study (1 to 3 credit hours)**

Advanced research and study for outstanding students in their major field. Culminates in report to a department committee which includes invited faculty members in related fields.

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**GERMAN COURSES (GER)**

*Note: For additional information, see Placement in Academic Courses.*

**GER 1121 Introductory German I (3)**

Introduction to the German language and culture.



**HIS 1112 U.S. since 1877 (3)**  
Survey of American history from post-

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mocracy in both the old and the new world. *Prerequisites: HIS 1101 and 1102 or permission of instructor.*

**HIS 3352 History of Africa (3)**

A survey of 19<sup>th</sup>- and 20<sup>th</sup>-century political, social, and cultural history of the region, including the partition of Africa by European powers and decolonization. *Prerequisites: HIS 1101 and 1102 or permission of instructor.*

**HIS 3356 History of the Middle East (3)**

- HIS 4423 American Foreign Policy to 1920 (3)**  
A study of the factors, forces, and functions in the making of American foreign policy from the 1760s to 1920. *Prerequisites: HIS 1111 and 1112 or permission of instructor. May be used for political science credit.*
- HIS 4430 Civil Rights Movement (3)**  
Study of the origins of the Civil Rights Movement in the late nineteenth and twentieth centuries, beginnings of change in the 1930s and the World War II era, and the movement itself as defined by legal, political, and social conflict and change from the latter 1940s to the present. *Prerequisites: HIS 4414 and 4415 or permission of instructor.*
- HIS 4432 Russia to 1861 (3)**  
A study of the history of the Eastern Slavic peowsh

**HIS 4474 Internship in History Education (9)**

The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. *Prerequisite: Admission to TEP. Co-requisite: SED 4454.*

**HIS 4481 Methods and Materials for the Secondary Teacher (3)**

A survey of teaching methods and materials appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evaluation in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, teaching methods, selections organization and use of history/social science materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course. *Prerequisite: Admission to TEP.*

**HIS 4482 Hispanic American Beginnings (3)**

Colonial systems of Spain and Portugal in the Americas from the 16th to 19th centuries, with emphasis on revolt and the establishment of the Latin American republics and religious and economic institutions. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

**HIS 4483 Latin American States (3)**

Cultural, social, political, and economic development in 19th and 20th centuries and international and U.S. relations. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

**HIS 4490 Senior Seminar in History (3)**

The capstone course for history majors which synthesizes students' course work through research, historiography, writing, speaking, and reading comprehension. *Prerequisites: senior standing at all institutions and HIS 3375 at Troy University-Dothan campus.*

**HIS 4491-4492 Guided Independent Research (1-3)**

Additional information is indexed under Guided Independent Research and Study.

**HIS 4493-4494 Guided Independent Study (1-3)**

Additional information is indexed under Guided Independent Research and Study.

**HIS 4495 Selected Topics in History (3)**

Historical examination of a designed topic of special and/or current interest and importance, which is generally not covered in regularly offered courses by the department. *Prerequisites: Applicable survey courses and permission of instructor.*

**HIS 4496 Secondary Education Internship — History (9)**

Additional information is indexed under The Professional Internship Program.

**HIS 4498 Honors-Independent Study (1 to 3 hours-TBA)**

Advanced research and study for outstanding students in their major field. Culminates in report to a departmental committee that includes invited faculty members in related fields. *Prerequisite: Senior level and 3.5 overall grade point average. Permission of guiding professor and approval of department chair and the dean of arts and sciences. A written request must be submitted to the department chair at least six weeks in advance of the semester the research is to be undertaken.*

**HIS 4499 Internship in History (1-3)**

Supervised work in an agency that can provide practical experience in the field of study. *Prerequisites: Senior standing, at least 2.5 GPA, 12 hours in upper-division courses in the field, and permission of supervising instructor, department chair and/or dean.*

## UNIVERSITY HONORS PROGRAM COURSES (HON)

*Please see the index for additional information regarding the University Honors Program.*

**HON 1101 Freshman Honors Colloquium (3)**

The first in a series of interdisciplinary seminars for University Honors Program candidates, combining class work with focus on the humanities, social sciences, natural sciences, attendance at campus and community events, and University Honors Program student activities. *Prerequisite: admission as a candidate for University Honors Program in fall semester of the freshman or sophomore year.*

**HON 2200 University Honors Special Topics: Interdisciplinary I (3)**

A one-semester course for students who have been accepted into the University Honors Program via the PEAK Program and completion of the requirements for candidacy. Interdisciplinary topics are determined in advance by the Honors Council and the honors director. *Prerequisites: HON 1101 or permission of the honors director.*

**HON 3300 University Honors Special Topics: Interdisciplinary II (3)**

A one-semester course for students who have been accepted into the University Honors Program. Interdisciplinary topics are determined in advance by the Honors Council and honors director. *Prerequisite: HON 2200 or permission of the honors director.*

**HON 4400 University Honors Capstone Seminar in Leadership (3)**

The final course in the interdisciplinary sequence of University Honors courses is

and the Director of the Institute for Leadership Studies. This course includes visits from leaders on the Troy main campus, visits with leaders in the community and in the state of Alabama.  
*Prerequisite: HON 3300 or permission of the honors director.*

**HON 4498 Department Honors Thesis or Project (3)**  
 Independent study with honors-level credit within the student's major department. See departmental offerings in English and histo

## HUMAN SERVICES COURSES (HS)

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**HS 2230 Survey of Human Services (3)**  
 A survey of the major human service delivery systems to include historical development, populations served, professional roles, and interrelationships between targeted social problems and services delivered. Introduction to the ecological/systems perspective as a tool for understanding these relationships. Includes observations and field trips.

**HS 2231 Peer Education-Drug Abuse Prevention (2)**  
 Introduction to peer education as a preventive procedure in working with campus drug and alcohol abuse. Techniques of peer teaching and peer counseling.

**HS 2232 Peer Education Practicum (1)**  
 Supervised experience in the Campus Peer Education - Drug Abuse Prevention Program. *Prerequisite: HS 2231 (May be repeated for a total of three hours credit).*

**HS 3310 Human Behavior In the Social Environment I (3)**  
 The biopsychosocial aspects of human growth and development throughout the life cycle. Emphasis is placed on understanding the individual in interaction with major social systems. Knowledge, skill, and value bases necessary for biopsychosocial assessment are built.

**HS 3370 Professional Communication Skills (3)**  
 Principles and techniques of interviewing for human services professionals. Ma

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**IS 4430 Web Site Design (3)**

Includes coverage of web site creation, design, programming, planning, and maintenance. *Prerequisite: IS 3346 and IS 3330.*

**IS 4440 Database Management Systems II (3)**

Modeling data organization; representation of data relationships; data definition languages; data access via languages in context models; facilities provided by DBMSs; implementation techniques; operational requirements; a survey of state of the art DBMSs. *Prerequisite: IS 3346 and IS 3330.*

**IS 4443 Internet Development (3)**

Advanced application development using databases and an Internet application de

- JRN 3300 Print News Photography (3-4)**  
Discussion of and practical experience in photography for newspapers and magazines in the areas of general news, features and sports photography.
- JRN 3302 Feature and Magazine Article Writing (3-4)**  
Researching, writing and marketing magazine feature articles, with emphasis on the human interest story, the personality sketch and the “color” story.  
*Prerequisite: JRN 2201.*
- JRN 3312 Advanced Editing (3-4)**  
Page layout and design, including the special pages, with an introduction to typography and graphics.  
*Prerequisite: JRN 2211.*
- JRN 3315 Advanced Reporting (3-4)**  
News reporting and writing on sports, business, consumer affairs, the environment, and public affairs, particularly local and state government, the courts and education. Emphasis is placed on use of background research and multiple sources and writing on deadline. Must make a C or better to receive credit toward degree. *Prerequisite: JRN 2201.*
- JRN 3320 Information Gathering (3-4)**  
Supervised journalism-related experiences focusing on gathering and analyzing information through discussion and practice of the techniques of interviewing, document and online research, focus groups and opinion surveys.
- JRN 3321 Public Relations Cases and Strategies (3-3)**  
A case study and project-based approach to public relations research, strategy setting and tactical implementation. *Prerequisites or co-requisites: JRN 2201, 2230 (Introduction to Public Relations).*
- JRN 3322 Advertising Copywriting (3-4)**  
The principles of advertising psychology studied in relation to the techniques for writing effective copy; approximately half of the course is devoted to practice in writing effective advertisements. *Prerequisites: JRN 2201 and JRN 2220 or special permission from the director of the School of Journalism.*
- JRN 3326 Advising Student Publications (3-3)**  
Students successfully completing this class will have the ability to teach journalism, including how to produce magazine and newspaper layout; develop copy and/or storyboard for radio and television production; apply techniques of advertising, reporting and editing; and use current and emerging technology in the production of print and non-print journalism. *NOTE: For current or prospective advisers of high school or college newspapers and yearbooks.*
- JRN 3327 Sports Broadcasting (3-3)**  
Advanced methods, techniques and performance styles for broadcast sports



lighting, video tape editing and directing. Two hours per day plus a weekly one-hour discussion and evaluation. *Prerequisite: Junior standing or above.*

- JRN 4419 Advanced Public Relations Tactics (3-3)**  
Practical experience in preparation of public relations messages for a client. *Prerequisite: JRN 3321. Co-requisite: JRN 4423.*
- JRN 4420 Advanced Television Practicum (3-6)**  
Emphasis on individualized work in television news or production. *Prerequisite: JRN 4413.*
- JRN 4421 The Editorial Page (3-4)**  
Editing and producing the editorial page, with extensive practice in writing the opinion column and editorial. *Prerequisite: JRN 2201.*
- JRN 4423 Public Relations Campaigns (3-3)**  
Application of public relations theory and best practices resulting in the creation of a complete public relations campaign for a client. *Prerequisite: JRN 3321. Co-requisite: JRN 4419*
- JRN 4425 Media Law (3-3)**  
The rights and restrictions of the press: the First Amendment, privilege, libel, slander, contempt, right of privacy, etc. *Prerequisite: Junior standing or above.*
- JRN 4427 Sports Reporting (3-3)**  
Advanced methods, techniques, and writing styles for reporting sports news and information. *Prerequisite: JRN 2201.*
- JRN 4430 Processes and Effects of Mass Communication (3-3)**  
This course provides students with an understanding of the development of the most notable, historical, social scientific and empirically grounded theoretical perspectives with regard to mass communication. In addition, analysis and interpretation of these theories will be addressed.
- JRN 4440 Advanced Technologies in Journalism (3-4)**  
An introduction to using advanced technologies and on-line reporting techniques in journalism and public relations.
- JRN 4489 Internship (5)**  
Full-time work experience as a regular staff member of a print publication, electronic media, public relations setting, advertising office, sports information operation, etc. Student will work under the supervision of an on-the-job supervisor and report to a Troy University faculty adviser who will monitor the work experience. Student will also prepare written and oral reports. *Prerequisite: Approval of the academic adviser and director of the School of Journalism, a minimum of 75 hours of course work, and successful completion of the journalism internship workshop prior to registering for JRN 4489.*

- JRN 4490 Internship/Field Experience (variable credit 1-7 hours. Only one credit hour may be applied to a major in journalism or broadcast journalism.)**  
Full-time work experience as a regular staff member of a print publication, electronic media, public relations setting, advertising office, or sports information operation. Student will work under the supervision of an on-the-job supervisor and report to a Troy University faculty adviser who will monitor the work experience. Student will also be required to prepare written and oral reports during the internship/field experience. *Prerequisites: Approval of the academic adviser and director of the School of Journalism. A minimum of 75 hours of course work. Corequisite: JRN 4489.*

- JRN 4491-4492 Guided Independent Research (1 to 3 credit hours per course per semester)**  
Additional information is indexed under Guided Independent Research and Study.

- JRN 4493-4494 Guided Independent Study (1 to 3 credit hours per course per semester)**  
Additional information is indexed under Guided Independent Research and Study.

- JRN 4495 Seminar (1-1)**  
Study of issues related to ethics in journalism, public relations and advertising. *Prerequisite: Senior standing or permission of the instructor.*

## KINESIOLOGY AND HEALTH PROMOTION COURSES (KHP)

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- KHP 1101 Badminton (1)**  
Physical education activity course.
- KHP 1104 Golf (1)**  
Physical education activity course.
- KHP 1107 Swimming (1)**  
Physical education activity course.
- KHP 1108 Tennis (1)**  
Physical education activity course.
- KHP 1109 Intermediate Swimming (1)**  
Physical education activity course.
- KHP 1110 Paddle Tennis (1)**  
Physical education activity course.
- KHP 1111 Archery (1)**  
Physical education activity course.
- KHP 1112 Advanced Swimming (1)**  
Physical education activity course.
- KHP 1122 Water Aerobics (1)**  
Physical education activity course.

<b>KHP 1123</b>	<b>Synchronized Swimming (1)</b> Physical education activity course.	<b>KHP 2202</b>	<b>First Aid and Safety and CPRO (2-2)</b> Community first aid and safety instruction and CPRO for the professional following American Red Cross techniques.
<b>KHP 1130</b>	<b>Social Contemporary Dance (1)</b> Physical education activity course.	<b>KHP 2204</b>	<b>Intermediate Golf (1)</b> Physical education activity course.
<b>KHP 1131</b>	<b>Folk Dance I (1)</b> Physical education activity course.	<b>KHP 2208</b>	<b>Intermediate Tennis (1)</b> Physical education activity course.
<b>KHP 1132</b>	<b>Modern Dance (1)</b> Physical education activity course.	<b>KHP 2212</b>	<b>First Aid and CPRO Recertification (1)</b> Community first aid and safety instruction and CPRO for recertification. <i>Prerequisite: Proof of previous certification in American Red Cross Community First Aid and Safety and CPRO.</i>
<b>KHP 1133</b>	<b>Square Dance (1)</b> Physical education activity course.	<b>KHP 2223</b>	<b>Advanced Synchronized Swimming (1)</b> Physical education activity course.
<b>KHP 1134</b>	<b>Ballroom Dance (1)</b> Physical education activity course.	<b>KHP 2230</b>	<b>Rhythmic Activities for Special Populations (1)</b> Physical education activity course.
<b>KHP 1135</b>	<b>Ballet I (1)</b> Physical education activity course.	<b>KHP 2231</b>	<b>Folk Dance II (1)</b> Physical education activity course.
<b>KHP 1136</b>	<b>Jazz Techniques I (1)</b> Physical education activity course.	<b>KHP 2232</b>	<b>Modern Dance Techniques II (1)</b> Physical education activity course.
<b>KHP 1137</b>	<b>Tap Dance (1)</b> Physical education activity course.	<b>KHP 2235</b>	<b>Ballet II (1)</b> Physical education activity course.
<b>KHP 1138</b>	<b>Clog Dance Techniques I (1)</b> Physical education activity course.	<b>KHP 2236</b>	<b>Jazz Techniques II (1)</b> Physical education activity course.
<b>KHP 1139</b>	<b>Aerobic Dance I (1)</b> Physical education activity course.	<b>KHP 2238</b>	<b>Clog Dance Techniques II (1)</b> Physical education activity course.
<b>KHP 1141</b>	<b>Jogging (1)</b> Physical education activity course.	<b>KHP 2239</b>	<b>Aerobic Dance II (1)</b> Physical education activity course.
<b>KHP 1142</b>	<b>Weight Training (1)</b> Physical education activity course.	<b>KHP 2240</b>	<b>Personal and Community Health (3)</b> Personal health as it applies to practices, knowledge and behavior.
<b>KHP 1144</b>	<b>Step Aerobics (1)</b> Physical education activity course.	<b>KHP 2241</b>	<b>Intermediate Jogging (1)</b> Physical education activity course.
<b>KHP 1145</b>	<b>Slide Aerobics (1)</b> Physical education activity course.	<b>KHP 2242</b>	<b>Intermediate Weight Training (1)</b> Physical education activity course.
<b>KHP 1146</b>	<b>Physical Defense for Women (1)</b> Physical education activity course.	<b>KHP 2250</b>	<b>Foundations of Health Science (1-1)</b> A study of the historical, philosophical and theoretical foundations of health education and health promotion, including the current status and projected trends in health education and promotion.
<b>KHP 2200</b>	<b>Health Concepts (1-1)</b> A study of health concepts that characterizes a process in the life cycle that is typical of every individual.		
<b>KHP 2201</b>	<b>Camping and Outdoor Education (2)</b> Camping, leadership and program planning.		

- KHP 2251 Foundations of Physical Education and SFM (2-2)**  
A study of the history and principles of health education and physical education with particular emphasis placed on present practices and trends.
- KHP 2252 Methods of Teaching Dance (3)**  
Social, folk and square dancing, including basic rhythmic activities which can be taught in elementary, middle and high schools.
- KHP 2260 Applied Fitness Concepts (2-2)**  
Personal conditioning-based course focusing on training principles, modes of exercise, training tools, performance enhancers, measurement concepts and exercise prescription.
- KHP 2263 Lifeguard Training (3-3)**  
Organization and teaching of the fundamental skills for water safety and the prevention of drowning. *Prerequisites: Advanced swimming or permission of instructor.*
- KHP 3330 Physical Skills Proficiency (2-2)**  
This course covers the rules, regulations, terms, origin, development, safety, equipment, and performance of skills of the physical sport skills related to KHP 4485/4486.
- KHP 3331 Physical Skills Proficiency II (2-2)**  
Traces the historical development of fitness, conditioning, and wellness concepts for life. Identifies rules, regulations, and terminology of specified sport activities. Students are expected to perform specified skill tests in golf, soccer, swimming, tennis, and track and field with a proficiency level of 80%.
- KHP 3332 Modern Dance Techniques III (1)**  
Physical education activity course.
- KHP 3340 Principles of Recreation (3-3)**  
Overview of recreation on federal, state and local levels with respect to history, program, population, facilities and trends.
- KHP 3350 Psychology of Wellness and Performance (3-3)**  
Theory and practical application of psychological factors that impact wellness and performance of individuals and groups.
- KHP 3352 Kinesiology and Efficiency of Human Movement (3-3)**  
General anatomy, joint and muscle function, and analysis of body movements. *Prerequisites: KHP 3360 or BIO 3347 and 3348*
- KHP3355 Introduction to Sport and Fitness Management (3)**  
This course is an introductory course for students who wish to enter the professional field of sport and/or fitness management. Students will be exposed to a variety of subjects related to sport and fitness management.
- KHP 3360 Physiological Principles of Body Systems (3-3)**  
This course will examine the structure, function and control mechanisms of the following body systems: musculoskeletal, nervous, endocrine, cardiovascular, and respiratory. Metabolism, temperature regulation and fluid, electrolyte and acid base balance will also be discussed. *Prerequisites: BIO 1100, CHM 1142 and L142.*
- KHP 3361 Integrating HPER into the Curriculum (3)**  
Methods and materials of teaching physical education for grades K-6. *Prerequisite: Junior standing or above.*
- KHP 3363 Lifeguard Training Instructor (3-3)**  
Review of all physical skills included in lifeguard training. Course will consist of theory and techniques of organizing and conducting the lifeguard training instructor course. *Prerequisite: KHP 2263.*
- KHP 3368 Water Safety Instructor (WSI) (2-2)**  
Organization and teaching swimming and water safety programs. *Prerequisite: Swimming Certificate.*
- KHP 3369 Scuba (2-4)**  
Basic techniques of scuba diving. *Prerequisite: Permission of the instructor. In addition to lab fee, a student is required to purchase mask, fins, snorkel, weight belt and weights. Students are also required to make two trips for final certification. The student will be responsible for the cost of transportation, food and lodging during the two trips.*
- KHP 3391 Testing and Statistical Interpretation (3-3)**  
Test selection, analyzing test scores and measurement as a technique of evaluation in evaluation in health education and physical education. *Prerequisite: junior standing or above.*
- KHP 3392 Water Safety Instructor for the Handicapped (I-1)**  
Organization and methods of teaching swimming to adapted students. *Prerequisite: A current valid WSI Certificate (Swimming Instructor Certificate).*
- KHP 3395 Care and Prevention of Athletic Injury (2-2)**  
The study of basic care and prevention, evaluation, management and rehabilitation of athletic injuries. *Prerequisites: BIO 3347, L347, 3348, L348.*
- KHP 4405 Physical Activity and Disease Prevention (3)**  
This course will explore the link between physical activity and the major diseases experienced by modern day humans. Evidence for and against the potential benefits of physical activity will be reviewed for conditions such as coronary heart disease, cancer, stroke, diabetes, arthritis, low back pain, asthma, infection, high blood cholesterol, high blood pressure, obesity and stress. *Prerequisites: BIO 1100, L100. CHM 1142 and L142 or PHY 2252 and L252 or SCI 2233 and L233. KHP 3360.*

**KHP 4400 Sports Officiating and Programs in Intramurals (3-3)**

Focuses on school and community recreation programs, including sports, games and officiating techniques.

**KHP 4410 Motor Development (3)**

An analysis of the ways in which children develop movement capabilities. *Prerequisite: Junior standing or above.*

**KHP 4427 Health Behavior (3-3)**

The theoretical foundations of health behavior and evaluation and their application to health practice. *Prerequisite: KHP 4420.*

**KHP 4430 Sport and Fitness Marketing (3)**

Course is designed to introduce the student to marketing practices of sport and fitness organizations. The course will review terminology, systems, techniques, and processes that are used in the specialized application of sport and fitness marketing and to encourage students to consider how traditional marketing strategies may be applied to this substantial and growing industry. *Prerequisite: KHP 3355 or permission of instructor.*

**KHP 4435 Current Issues in Sport and Fitness Management (3)**

Course is designed to serve as a mechanism for the introduction of new information and technology issues for the sport industry. This course will encourage the undergraduate student in sport and fitness management to remain current with contemporary developments in the sports industry. *Prerequisite: KHP 3355.*

**KHP 4440 Governing Agencies in Sport (3)**

Course is designed to provide the student with information concerning basic structure and governing principles of various sport agencies. The course will include, but is not limited to, an examination of the National Collegiate Athletic Association, National Association of Intercollegiate Athletics, professional sports leagues in the United States and Europe. *Prerequisite: KHP 3355 or permission of instructor.*

**KHP 4442 Health Education (3-3)**

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*quisites: KHP 3352 and admission to professional education program or permission of the instructor.*

## LATIN COURSES (LAT)

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**KHP 4487 Special Topics in Exercise Performance (2-2)**

An intensive study of selected topics in exercise science. Topics to be taught each term TBA. *Prerequisite: KHP 4474 or permission of instructor.*

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KOR 2201 Senior Seminar (1-2)

**KHP 4488 Issues and Practice in Cardiac Rehabilitation (3-3)**

Course will examine the policies and procedures of cardiac rehabilitation programs. Students will be introduced to the phases of cardiac rehabilitation programs, administration and reporting of graded exercise stress tests, administration of exercise sessions, reporting procedures, and techniques of successful patient educational programs. *Prerequisite: KHP 4474.*

**KHP 4489 Practicum in Dance Production and Performance (1-3)**

A supervised experience in planning, staging and evaluating a formal dance production.

**KHP 4490 Internship in Area of Concentration (6)**

A supervised experience in planning, staging and evaluating a formal practicum in related field. *Prerequisite: Permission of the department chair.*

**KHP 4491-4492 Guided Independent Research (1-3)**

Additional information is indexed under Guided Independent Research and Study.

**KHP 4493-4494 Guided Independent Study (1-3)**

Additional information is indexed under Guided Independent Research and Study.

**KHP 4499 Senior Seminar (1-2)**

Students enrolled in the course will complete resumes, attend professional meetings, and be informed of certification dates and locations. *Prerequisites: Permission of instructor.*

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## KOREAN COURSES (KOR)

**KOR 1101 Introductory Korean I (3-3)**

Introduction to the Korean Language.

**KOR 1102 Introductory Korean II (3-3)**

Introduction to the Korean Language. *Prerequisite: KOR 1101 or permission of instructor.*

**KOR 2201 Intermediate Korean I (3-3)**

Progressive development of basic language skills in Korean. *Prerequisite: KOR 1102 or permission of instructor.*

**KOR 2202 Intermediate Korean II (3-3)**

Progressive development of basic language skills in Korean. *Prerequisite: KOR 2201 or permission of instructor.*

**LDR 4400 Leadership Seminar (3-3)**

A capstone course designed to synthesize leadership planning and experience and to orient developing leaders to the practical and ethical challenges awaiting them.

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**MARINE BIOLOGY COURSES (MB)**


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*Offered at Dauphin Island Sea Lab (DISL) only*

*Courses are offered during the summer semester only. Because course offerings change, check current DISL summer bulletin for specific course offerings and descriptions.*

**MB 3301 Marine Biology (4)**

A general survey of marine plants, invertebrates, and vertebrates, the communities that they form and the physical and chemical factors that influence them. *Prerequisites: BIO 1101, L101, CHM 1143, L143.*

**MB 4402 Marine Invertebrate Zoology (4)**

A study of the natural history, systematics, and morphology of marine invertebrates from a variety of habitats in the Gulf of Mexico. Participation in extended field trips is a required part of the course. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143.*

**MB 4403 Marine Vertebrate Zoology (4)**

Biology of marine vertebrates emphasizing systematics, behavior, physiology, and ecology of local forms. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, CHM L143.*

**MB 4404 Marine Botany (4)**

A general survey of algae and vascular plants associated with the marine and estuarine environment. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143.*

**MB 4406 Marsh Ecology (4)**

A study of the floral and faunal elements of various marine marsh communities. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143.*

**MB 4410 Introduction to Oceanography (4)**

A general introduction to the physics, chemistry, geology, and biology of the oceans. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143.*

**MB 4416 Marine Fish Diseases (2)**

Introduction to aquatic animal diseases, specifically fin fish and shellfish. Student will learn practical microbiological techniques for isolation and identification.

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**MANAGEMENT COURSES (MGT)**


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- MGT 3371 Principles of Management (3)**  
An introduction to management functions, principles, and techniques. The course includes a discussion of planning, organizing, influencing through leadership, and control within the organization. *Prerequisites: ECO 2252.*
- MGT 3373 Operations Management (3)**  
A study of how organizational processes add value as they convert inputs to outputs. Topics covered include the strategic relationship of operations with other functional organizations, value chain concepts, quantitative methods of operations, including forecasting models, inventory models, statistical process control, process models and project management methods. The course also provides a review of current supply chain philosophies such as JIT, MRP, and EOQ inventory management methods. *Prerequisites: MGT 3371.*
- MGT 3375 Human Resource Management (3)**  
A survey of the major activities of human resource management function including recruiting, selection, placement, training, compensation, employee representation, and current issues. A prerequisite for 4000-level HRM courses. *Prerequisite: MGT 3371.*
- MGT 4451 Supply Chain Management (3)**  
This course presents an overview of supply operations of the organization and management of the distribution process from supplier to end user. Topics covered include: materials procurement policies and procedures, supply and distribution processes, development of materials specifications and statements of work, procedures for materials sourcing on a global scale, competitive bidding, price/cost analysis, and electronic procurement methods. *Prerequisite: MGT 3373.*
- MGT 4452 Supply Chain Management Information Systems (3)**  
This course presents a study of the planning and control systems used to manage the flow of products and services along the supply chain. Topics include: master scheduling, materials requirements planning (MRPI and MRPII), enterprise resource planning (ERP), inventory management and e-commerce. *Prerequisite: MGT 4451.*
- MGT 4453 Supply Chain Strategy (3)**  
This is a capstone course that integrates those supply chain techniques and principles essential for achieving sustainable competitive advantage in a global marketplace. Topics covered include: design and structure of the global supply chain, relationships among supply chain members, supplier selection, contract administration, electronic commerce and international shipping regulations and procedures. *Prerequisites: MGT 4465, 4451, 4452.*
- MGT 4460 Introduction to Project Management (3)**  
This course provides an introduction to essential principles governing effective project management and an application of tools and techniques that can be applied to defining projects, establishing task structure, planning and budgeting, managing of resources to achieve the project objectives, and post-project evaluation. *Prerequisites: MGT 3371 and MGT 3373.*
- MGT 4471 Organizational Development (3)**  
Examines the various applied behavioral science approaches to handling and managing change in organizations. Topics discussed include the theory, values, and approaches to organizational development, planned change, work styles, and interpersonal analysis. *Prerequisite: MGT 3371.*
- MGT 4472 Organizational Behavior (3)**  
A study of individual and group behavior in business organizations. *Prerequisite: MGT 3371.*
- MGT 4473 Labor Law and Collective Bargaining (3)**  
A study of court decisions, national labor and employment laws, administrative regulations, and procedures of the National Labor Relations Board that guide effective approaches to collective bargaining and labor relations. *Prerequisite: MGT 3371.*
- MGT 4474 Business and Society (3)**  
Focuses on the interrelationships which exist between business organizations and the environment in which they operate. Significant relationships of business and society in the past, present, and probable future will be examined. General areas discussed include business ethics, social responsibility, and relationships with government, education, and labor unions. *Prerequisite: MGT 3371.*
- MGT 4475 Small Business Management (3)**  
Detailed analysis of the creation and management of small business entities. The dynamics of operating small businesses successfully is presented. Emphasizes entrepreneurial opportunities, new venture processes, and managerial activities needed for the successful operation of small business. *Prerequisite: MGT 3371.*
- MGT 4476 Strategic Management (3)**  
Capstone course for business majors. Integrates knowledge, skills, and concepts acquired in all business courses taken. Requires students to analyze various corporations, determine threats and opportunities posed by the external environment as well as the firm's strengths and weaknesses, formulate strategic plans for firms, and determine how these plans should be implemented. *Prerequisites: Senior standing; completion of or concurrent en-*



**MGT 4479 Management Seminar (3)**  
Analysis of current problems and issues in management. *Prerequisite: MGT 3371.*

**MGT 4480 Technology and Innovation Management (3)**  
The course investigates the strategic implications of technology and innovation for manufacturing and service organizations that operate in dynamically changing environments. The course provides a comprehensive study of leading-edge product and process technologies, emerging organizational and social issues that influence the adoption of technology, methods for forecasting future trends in technology, and current concepts and methods for managing technology and motivating innovation. *Prerequisite: MGT 3373.*

**MGT 4481 Staffing (3)**  
Addresses theory, principles, practices, and legal requirements for effective recruitment, selection, and promotion in organizational settings. *Prerequisite: MGT 3371.*

**MGT 4482 Managing Health, Safety and Diversity (3)**  
This course addresses the theory, practice and legal requirements in managing employee health, safety, and cultural diversity in organizational settings. *Prerequisite: MGT 3371.*

**MGT 4483 Human Resource Development (3)**  
Theory and practice in human resource training and development applied to organizational settings. *Prerequisite: MGT 3371.*

**MGT 4485 Performance Appraisal and Compensation (3)**  
Addresses theory, principles, practices, and legal requirements linking effective performance management and compensation and benefit systems in organizational settings. *Prerequisite: MGT 3371.*

**MGT 4490 Total Quality Management (3)**  
An overview of the strategies and means used by leading companies throughout the world to obtain outstanding quality results and strong competitive positions. Focuses on the continuous improvement of quality of product and service, and the resulting benefits in reduced costs, increased productivity, and higher levels of customer satisfaction. *Prerequisites: MGT 3373 and QM 3341.*

**MGT 4496c0.0036 T41-2.hc50.003n opics in HR (3)**  
An in-depth study of a broad range of human resource management topics. Individual investigations and reporting are emphasized in seminar fashion. Focus on a topic of a timely special interest. *Prerequisite: MGT 3371.*

## MARKETING COURSES (MKT)

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tem design, operation, and control. *Prerequisite*  
*MKT 3361.*

**MKT 4466 Direct Marketing (3)**

Principles and techniques in planning, creating and producing consumer-direct communications to reach and deliver goods and services to customers. *Prerequisite: MKT 3361.*

**MKT 4467 Sales Management (3)**

A study of the management of the personal selling functions. Emphasis is on the sales process including recruitment, training, organization, motivation and retention of sales force. *Prerequisite: MKT 3361.*

**MKT 4468 International Marketing (3)**

Decision making and policy formulation relative to the cultural, social, political, legal and economic aspects of marketing in global environments. *Prerequisite: MKT 3361.*

**MKT 4469 Marketing Management (3)**

This is the capstone course for marketing major students. Focus is on marketing management problem solving by applying marketing concepts, procedures and practices learned. Vehicles to deepen this decision-making approach will include text, cases and simulations. *Prerequisite: 15 SH in marketing courses beyond MKT 3361.*

**MKT 4481 Internet Marketing I (3)**

the features and execution of the Leadership Development Program, and the execution of squad battle drills. *Co-requisite: MS 3304a.*

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**MT 4412 Clinical Chemistry (6)**

This lecture course focuses on the principles and interpretations of biochemical analytical methods, clinical calculations, and quality control.

**MT 4413 Clinical Chemistry Lab (4)**

This lab rotation provides the practical experience of running biochemical tests and interpreting their results. Some prior experience with instrumentation is required in order to understand how to use and care for clinical instruments.

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**MATHEMATICS COURSES (MTH)**

**MTH 0096 Pre-Algebra (3)**

Topics include operations with whole numbers, decimals, and fractions. Ratio, percent and equation solving will be emphasized. *Note: This course is for institutional credit only and will not be used in meeting degree requirements. This course will*

**MTH 2215 Applied Discrete Mathematics (3)**

Discrete mathematics with a computer science orientation is presented. Topics include sets, relations, logic, algorithms, and recursion. *Prerequisite:* A grade of C or better in MTH 1112. *Note:* Credit will not count toward a major or minor in mathematics.

**MTH 2220 Computer Programming for Mathematics (3)**

Structured programming of a mathematical nature, arithmetic computations, algorithm design and control structures, functions and subroutines, intrin-

**MTH 4436 Number Theory (3)**

Divisibility, congruencies, prime numbers, Fermat's theorem, Diophantine equations, number theoretic functions. *Prerequisites: MTH 2227 and 3318.*

**MTH 4441 Abstract Algebra I (3)**

Properties of the integers, modular arithmetic. Elementary theory of groups, finite groups, subgroups, cyclic groups, permutation groups. Group isomorphisms and homomorphisms. *Prerequisites: MTH 2227, 3318, and 3331, or permission of instructor.*

**MTH 4442 Abstract Algebra II (3)**

Elementary theory of rings, polynomial rings, divisibility, unique factorization domains. Integral domains, ideals, factor rings, divisibility in integral domains. Elementary theory of fields. Extension fields. *Prerequisite: MTH 4441.*

**MTH 4451 Mathematical Statistics I (3)**

Probability theory, sample spaces, random variables, mutual exclusion, independence, conditional probability, permutations and combinations, common discrete and continuous distributions, expected value, mean, variance, multivariate distributions, covariance, Central Limit Theorem. *Prerequisite: MTH 2227 or permission of instructor.*

**MTH 4452 Mathematical Statistics II (3)**

Fundamentals of the theory of statistics, the Central Limit Theorem, point estimation, sufficiency, consistency, hypothesis testing, sampling distributions, confidence intervals, linear regression models, interpretation of experimental results, Bayesian Estimation. *Prerequisite: MTH 4451.*

**MTH 4460 Topology (3)**

An introduction to metric and topological spaces and associated topics, separation axioms, compactness, and connectedness. *Prerequisites: MTH 2227 and 3318.*

**MTH 4474 Internship in Mathematics Education (9)**

The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. *Prerequisite: Admission to TEP. Co-requisite: SED 4454.*

**MTH 4481 Methods and Materials for the Secondary Teacher (3)**

A survey of teaching methods and materials appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evalua-

- MUI 4410 Arts Management/Concert Production (2)**  
Study of the arts organization and the performing artist within a social and governmental context.
- MUI 4420 Film Scoring (2)**  
Examination of the process and preparation of digital music for film, digital video and animation.
- MUI 4460 Senior Practicum (3)**  
Culminating project and presentation in student's area of emphasis integrating internship, career placement and portfolio development
- MUI 4480 Seminar in Music Industry (1)**  
Study of a special topic in the music profession. Contact school of music office for specific information about content schedule and costs in any given term.
- MUI 4499 Music Industry Internship (9)**  
Placement in real-world work environment in the music industry. Supervised by a music industry faculty member.

- MUS 1106 Class Piano II (1-2)**  
Development of intermediate-level keyboard skills including improvisational techniques, chorale playing, sight reading and transposition. *Prerequisite:* MUS 1105.
- MUS 1107 Aural Skills I (1-2)**  
Beginning sight singing and rhythmic reading. Melodic, harmonic and rhythmic dictation, including intervals, chord qualities and simple/compound meters. Beginning improvisation techniques.
- MUS 1108 Aural Skills II (1-2)**  
Intermediate level sight singing and rhythmic reading. Combined melodic and harmonic dictation, with inversions and mixed meter rhythms. Continuation of improvisation techniques. *Prerequisite:* MUS 1107.
- MUS 1110-4427 Private Instruction (1 credit hour per semester, 1 lesson per week)**  
  
1110 Violin  
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**MUSIC COURSES (MUS)**

*NOTE: A passing score on the theory placement test prior to registration is required of all students taking music theory coursework (except for MUS 1100 - Basic Music Skills). Contact the School of Music for more information.*

- MUS 1100 Basic Music Skills (2-3)**  
Focuses on the elements of music with emphasis on basic skills of music reading, orientation to the keyboard, sight-singing and dictation. *NOTE: This course cannot be used in meeting degree requirements other than general electives. May not be taken concurrently with any other music theory course.*
- MUS 1102 Music Theory I (3-3)**  
Study of fundamental characteristics of tonal music. *Prerequisite:* Grade of C in MUS 1100 or acceptable score on placement test. *Students must take placement test before enrolling in this sequence. Co-requisites for music majors: MUS 1105 and 1107.*
- MUS 1103 Music Theory II (3-3)**  
Study of modulation, secondary dominants, seventh chord resolution, two- and three-part forms, and intermediate-level analysis. *Prerequisite:* MUS 1102. *Co-requisites for music majors: MUS 1106 and 1108.*
- MUS 1105 Class Piano I (1-2)**  
Introduction to basic keyboard musicianship and music reading skills. Focuses on beginning improvisation techniques, harmonization and beginning chorale playing.





- MUS 3361 Integrating Music into the Curriculum (3-3)**  
Basic skills and methods of presentation and evaluation for music in grades P-6. Role-playing experiences are used to demonstrate appropriate materials, student involvement and motivational techniques. *Prerequisite: MUS 1131 or 1132.*
- MUS 3364 String Orchestra (1-2)**  
String ensemble open to all students with permission of director.
- MUS 3365 Class Composition (1-3)**  
Creative musical writing, criticism, and study of compositional techniques. *Prerequisite: Permission of instructor.*
- MUS 3382 Choral Techniques (3-3)**  
Organizational and instructional strategies for teaching music through performance in choir. Includes a field component. *Prerequisite: MUS 1103 and junior standing.*
- MUS 3384 Band Techniques (3-3)**  
Organizational and instrumental strategies for teaching music through performance in band. Includes a field experience component. *Prerequisite: MUS 1103 and junior standing.*
- MUS 3385 Symphony Band (1-3)**  
Selective concert organization for performance of advanced literature for band and wind ensemble. *Prerequisite: Audition with director.*
- MUS 3386 Jazz Ensembles (1-3)**  
Selective ensemble for performance in a wide variety of jazz styles. *Prerequisite: Audition with director.*
- MUS 4400, 4401, 4402 Selected Topics (1-3 credit hours per course)**  
Detailed investigation of a specialized topic not covered in regularly offered courses, or an advanced section for intensive study.
- MUS 4403 Classroom Management for the Music Educator (3-4)**  
The purpose of this course is to establish a foundation of content and application relative to classroom management for the music educator (P-12). Provides opportunities for analysis and application of behavioral management techniques in general music and performance-based pedagogical settings.
- MUS 4451 Literature and Techniques of Musical Theatre (3-3)**  
A survey of production techniques appropriate for school and college productions of operas and/or musicals.
- MUS 4452 Opera Literature (3-3)**  
Historical survey of major operas from all periods designed to increase appreciation and understanding of this dramatic art form.
- MUS 4455 Survey of the Broadway Musical (3-3)**  
Traces the origins and surveys major works of the Broadway musical repertoire.
- MUS 4460 Music for the Exceptional Learner (3-3)**  
Theoretical and practical exploration of the use of music to teach various populations of exceptional learners. Hands-on experience provided with exceptional populations and designing musical activities for each. *Prerequisite: sophomore standing.*
- MUS 4461 Orchestration and Arranging (2-2)**  
Ranges, transpositions and other characteristics of standard instruments and voices. Arranging projects geared to needs of school instrumental and choral groups. *Prerequisite: MUS 2202.*
- MUS 4470 Instrument Repair (2-2)**  
Course includes basic musical instrument adjustment, maintenance and repair, common industry standards and guidelines, practical evaluation and hands-on adjustment and repair.
- MUS 4471 Music for ECE and Elementary School (3-4)**  
Materials and planning techniques for music in grades P-6. Singing, listening, movement, instrument playing and creative activities will be explored. Multicultural elements, observation, teaching experiences, and practical application of ideas will be included. *Prerequisites: MUS 1103 and junior standing.*
- MUS 4472 Internship in Music Education (9)**  
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. *Prerequisite: Admission to TEP. Corequisite: IED 4454.*
- MUS 4481 Methods and Materials for the Secondary Music Teacher (3-4)**  
Teaching methods, selection, organization and use of music materials in grades 6-12. Observation and teaching experiences will be included. *Prerequisites: MUS 4471 and admission to TEP.*
- MUS 4491-4492 Guided Independent Research (1-3 credit hours per course)**  
Additional information may be found under Independent Research and Study.



- NSG 2266 Nursing of Children Practicum (2-4)**  
Focuses on the role of the registered nurse in the application of the nursing process to assist children and their families to use adaptive strategies during childrearing. Applies concepts of growth and development in the care of children with altered health states including multiple disabilities. *Prerequisites:* NSG 1140, NSG 1141 or 1110, NSG 2271, NSG 2272, BIO 3372, L372. *Co-requisite:* NSG 2265.
- NSG 2271 Psychosocial Nursing Concepts (2-2)**  
Focuses on the role of the registered nurse in promoting the adaptation of individuals and families experiencing biopsychosocial stressors. *Prerequisites:* NSG 1130, 1131, 1135, 1151, 2213, BIO 3348, L348, PSY 3300, TROY 1101. *Co-requisites:* NSG 2272.
- NSG 2272 Psychosocial Nursing Practicum (2-4)**  
Focuses on the role of the registered nurse in the application of the nursing process in the care of individuals and families experiencing biopsychoso-

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utilization in the human system and their contributions to the health of individuals throughout the life span. Includes dietary patterns of various cultural, ethnic, and religious groups, nutritional assessments and food safety. Open to all majors.

**NSG 2220 Health Science Informatics (3)**

Provides a foundation for the study of information and its utilization through computer technology; encompasses access, dissemination, and management of health science information and Internet communication. General topics include communication through electronic mail, using the World Wide Web as an information tool, online scholarly research, and digital presentations and publishing.

- NSG 3323 Maternal-Infant Health Nursing (3)**  
Provides a knowledge base for care of childbearing families. Examines the childbearing family as a part of the human environment interactive system. Emphasizes the nurse's role in facilitating adaptive responses of the childbearing family during the antepartal, intrapartal and postpartal periods. *Prerequisites: Successful completion of all nursing courses in semesters I and II of BSN clinical nursing sequence. Co-requisite: NSG 3324.*
- NSG 3324 Maternal-Infant Health Nursing Practicum (2-4)**  
Provides clinical learning opportunities for students to provide nursing care for childbearing families. Emphasizes use of the nursing process as systematic approach to facilitate adaptive responses of the childbearing family during the antepartal, intrapartal and postpartal periods. *Prerequisites: Successful completion of all nursing courses in semesters I and II of BSN clinical nursing sequence. Co-requisite: NSG 3323.*
- NSG 3325 Nursing Concepts II (3)**  
Explores the relationship between life span development and adaptive responses in the human-environment interactive system. Continues to explore the concept of illness as an altered health state. Emphasizes the nurse's role in diagnosing and treating human responses (biological, psychological, and sociocultural) to common health alterations across the life span. *Prerequisites: Successful completion of all nursing courses in Semester I of BSN clinical nursing sequence. Co-requisite: NSG 3326. Prerequisite or concurrent: NSG 3301.*
- NSG 3326 Nursing Concepts II Practicum (3-6)**  
Provides clinical learning opportunities for student to diagnose and treat human responses (biological, psychological, and socio-cultural) to common health alterations across the life span. Emphasizes the use of nursing process as a systematic approach to providing illness and restorative care. *Prerequisites: Successful completion of all nursing courses in Semester I of BSN clinical nursing sequence. Co-requisite: NSG 3325. Prerequisite or concurrent: NSG 3301.*
- NSG 3332 Child Health Nursing (3)**  
Provides theoretical foundation for the nursing care of children. Examines the relationship between growth and development and the adaptive responses of children within the human-environment interactive system. Emphasizes the nurse's role in health promotion and maintenance, illness and restorative care for children of various ages. *Prerequisites: Successful completion of all nursing courses in semesters I and II of BSN clinical nursing sequence. Co-requisite: NSG 3333.*
- NSG 3333 Child Health Nursing Practicum (2-4)**  
Provides clinical learning opportunities for students to provide illness and restorative care for children experiencing alterations in health states. Emphasizes use of the nursing process in facilitating human adaptive responses to child health alterations. *Prerequisites: Successful completion of all nursing courses in semesters I and II of BSN clinical nursing sequence. Co-requisite: NSG 3332.*
- NSG 3334 Psychiatric-Mental Health Nursing (3)**  
Explores mental illness as an altered response to internal and external environmental dimensions. Examines selected theories of mental health and illness for use in nursing practice. Emphasizes the nursing process as a systematic approach to facilitating human adaptive responses to mental health alterations across the life span. *Prerequisites: Successful completion of all nursing courses in Semester I of BSN clinical nursing sequence. Co-requisite: NSG 3335.*
- NSG 3335 Psychiatric-Mental Health Nursing Practicum (2-4)**  
Provides clinical learning opportunities for students to provide illness and restorative care for individuals experiencing alterations in mental health states. Emphasizes use of the nursing process in facilitating human adaptive responses to mental health alterations. *Prerequisites: Successful completion of all nursing courses in Semester I of BSN clinical nursing sequence. Co-requisite: NSG 3334.*
- NSG 3336 Adult Health Nursing (3)**  
Continues to explore the relationship between life span development and adaptive responses in the human environment interactive system. Continues to explore the concept of illness as an altered health state for the adult. Emphasizes the nurse's role in diagnosing and treating human responses (biological, psychological, and socio-cultural) to common health alterations across the lifespan. *Prerequisite: Successful completion of all nursing courses in semesters I and II of the BSN clinical nursing sequence. Co-requisite: NSG 3337.*
- NSG 3337 Adult Health Nursing Practicum (2-4)**  
Provides clinical learning opportunities for student to diagnose and treat human responses (biological, psychological and socio-cultural) to common health alterations across the life span. Emphasizes the use of the nursing process as a systematic approach to providing illness and restorative care. *Prerequisite: Successful completion of all nursing courses in semesters I and II of the BSN clinical nursing sequence. Co-requisite: NSG 3336.*
- NSG 3340 Ethics in Nursing (3)**  
A discussion of traditional ethical theories, principles and meta-ethical concerns will provide the necessary background required to explore a variety of controversial issues such as euthanasia, abortion, and the new reproductive technologies. Objective and critical reflection about the issues will be developed into active discussions by the students. *Prerequisite: Permission of instructor.*
- NSG 3350 Case Management in Healthcare (2)**  
This course provides the student with a beginning understanding of theoretical and practical information about case management. In addition, the course familiarizes the students with the roles of the case manager in the evolving health care climate of today. Open to all juniors and seniors in the College of Health and Human Services.

- NSG 3370 Professional Nursing (2)**  
Provides Registered Nurse students the opportunity to explore the principles, values, standards, internal and external dimensions impacting the profession of nursing. Examines past, present, and emerging roles of the professional nurse. Examines theoretical foundations for implementation of the leadership/management role of the professional nurse. *Prerequisite: Current Registered Nurse license and admission to the BSN Program.*
- NSG 4405 Public Health Nursing (3)**  
Provides theoretical foundation for public health nursing practice. Explores the reciprocal relationship between environmental dimensions and public health. Emphasizes the nurse's role in the delivery of public health nursing care as well as community-based nursing care. *Prerequisites: All 3300-level nursing courses or admission to RN-BSN/MSN clinical nursing sequence. Co-requisite: NSG 4406.*
- NSG 4406 Public Health Nursing Practicum (2-4)**  
Provides clinical learning opportunities for students to manage the nursing care of individuals, families, groups, and communities. Emphasizes use of the nursing process in promoting and maintaining health of individuals, families, and communities. *Prerequisites: All 3300 level nursing courses or admission to RN-BSN/MSN clinical nursing sequence. Co-requisite: NSG 4405.*
- NSG 4407 Clinical Nutrition (1)**  
A study of clinical nutrition applied to real-life situations with the focus on the human as a unique system affected by economic, ethnic, psychological and physiological stimuli. *Prerequisite: All 3300 level nursing courses or admission to the RN-BSN/MSN clinical nursing sequence.*
- NSG 4413 Nursing Concepts III (3)**  
Examines individual and group responses to complex, multi-system stressors within the human-environment interactive system. Explores complex multi-system stress as crisis. Emphasizes the nurse's role in diagnosing and treating individual and group responses to complex, multi-system stressors across the life span. *Prerequisites: Successful completion of all nursing courses in semesters I, II, and III of the BSN clinical nursing sequence. Co-requisite: NSG 4414.*
- NSG 4414 Nursing Concepts III Practicum (2-4)**  
Provides clinical learning opportunities for students to examine individual and group responses to complex, multi-system stressors, within the human-environment interactive system. Emphasizes use of the nursing process in diagnosing and treating individual and group responses to complex, multi-system stressors across the life span. *Prerequisites: Successful completion of all nursing courses in semesters I, II and III of the BSN clinical nursing sequence. Co-requisite: NSG 4413.*
- NSG 4415 Nursing Leadership/Management (2)**  
Provides the theoretical foundation for implementation of the leadership/management role of the professional nurse. Explores leadership/management theories and principles and the nature of organizations. Emphasizes strategies for utilizing leadership/management skills in various dimensions of the human-environment interactive system. *Prerequisites: Successful completion of all 3300-level nursing courses.*
- NSG 4417 Senior Seminar (1)**  
Explores past, present, and emerging roles of professional nurses and examines internal and external dimensions affecting the nursing profession. *Prerequisites: Successful completion of all 3300 level nursing courses.*
- NSG 4419 Research Process in Nursing (2)**  
Explores the steps in the research process and the legal and ethical considerations in the conduct of nursing research. Examines variation in research designs, types of measurement tools, validity, and reliability. The course concludes with application of existing research to nursing practice. *Prerequisite: Successful completion of all nursing courses in semesters I and II of the BSN clinical nursing sequence.*
- NSG 4421 Senior Clinical Preceptorship (3-9)**  
Facilitates transition into the nurse generalist role by providing opportunities for students to refine nursing practice and leadership/management skills and develop more in-depth knowledge in a selected clinical area under the guidance of an approved preceptor. *Prerequisites: Successful completion of 3300 level nursing courses.*
- NSG 4430 Advanced Nursing Theory (3)**  
Examines individual and group responses to complex, multi-system stressors within the human-environment interactive system. *Prerequisites: Successful completion of all nursing courses in semesters I, II, and III of the BSN clinical nursing sequence. Co-requisite: NSG 4413.*

**PERSIAN COURSES (PER)**

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and the interpretation of data. *Co-requisite: PHY 4459.*

### **PHY 4491-4492 Guided Independent Research (1-4)**

A physics research project under the direction of a faculty member. The project must culminate in a written report with the results reported at a department seminar. *Prerequisite: Senior standing or permission of department chair. Also see index for "Independent Study and Research."*

### **PHY 4493-4494 Guided Independent Study (1-4)**

Independent study for advanced students under the direction of a faculty member. *Prerequisite: Permission of department chair. Also see index for "Independent Study and Research."*

### **PHY 4495 Topics in Physics (3)**

Focus on a topic of timely nature and/or special interest. *Prerequisites: PHY 2253 and L253 or PHY 2263 and L263.*

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## **POLITICAL SCIENCE COURSES (POL)**

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### **POL 2240 Honors American National Government (3)**

This course explores the stable political values that frame the US Constitution and have guided our societal environment for two hundred years. The course is intended for superior students and political science majors.

### **POL 2241 American National Government (3)**

A study of the Constitution, federalism, the Presidency, Congress, the courts, and politics on the national level.

### **POL 2260 World Politics (3)**

An investigation of the development, nature, and process of political actions across national boundaries in the global system. Topics include international security, comparative government, international political economy, international organizations, and new global issues.

### **POL 3300 Foundations of Political Science (3)**

An introduction to the discipline of political science, this course offers an overview of the sub-fields and methods within the discipline.

### **POL 3315 The Vietnam War (3)**

A study of the Vietnam War within the context of the Cold War. This course is designed for students who are interested in the history of the Vietnam War and its impact on the world.





terrorism. It employs an interdisciplinary, case-study approach.

**POL 4476 Politics of Southeast Asia (3)**

This course involves the study of politics in the Philippines, Indonesia, Vietnam, Laos, Kampuchea, Malaysia, Singapore, Brunei, Myanmar, and Thailand. It investigates the historical and cultural factors contributing to their political relationships within the region and internationally

**POL 4490 Internship in Political Science (1-3)**

Supervised work in an agency that can provide practical experience in the field of study. *Prerequisites: senior standing and approval of supervising instructor and the department chair.*

**POL 4491-4492 Guided Independent Research (1-3 credit hours each)**

Additional information is indexed under Guided Independent Research and Study.

**POL 4493 – 4494 Guided Independent Study (1-3 credit hours each)**

Additional information is indexed under Guided Independent Research and Study.

**POL 4495 Selected Topics in Political Science (3)**

Examines selected topics of a timely nature and/or special interest within the field of political science.

parametric). May be used for Sociology credit. *Prerequisite: MTH 1110 or higher, with a grade of C or above.*

**PSY 3303 Educational Psychology (3)**

Characteristics of the learner. (2.7) (6.6) (below 6.6) (the ) Psyche use

## PSYCHOLOGY COURSES (PSY)

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**PSY 2200 General Psychology (3)**

A survey of the basic theories, concepts, principles, and research findings in the field of psychology.

**PSY 2201 Honors General Psychology (3)**

A survey of the basic theories, concepts, principles, and research findings in the field of psychology.

**PSY 2205 Psychology of Adjustment (3)**

A course in mental health, designed to assist the individual in making a good adjustment to the changing requirements of the environment.

**PSY 2210 Developmental Psychology (3)**

A study of human development across the life-span with emphasis on psychosocial, physical, emotional, and cognitive changes.

**PSY 2230 Orientation to Psychology (3)**

Introduction to the language of psychology, APA writing style, and library research. Also includes an overview of career paths in psychology.

**PSY 3301 Basic Statistics (3)**

An introduction to descriptive and inferential statistical concepts, methods, and tools. Topics to be covered include basic terminology, measurement, data description, probability, hypothesis testing, and inferential tests (parametric and non-

- PSY 3330 Health Psychology (3)**  
This course studies the science that connects behavior to health, including psychological processes and the relationship between health and human behavior.
- PSY 3332 Family Violence (3)**  
An in-depth study of violence in families, including spousal abuse, child abuse, elder abuse, relationship dynamics, protection services, treatment programs, legal defense strategies, and current legislation. *Prerequisite: junior standing or above. NOTE: May be taken for psychology or sociology credit, but not both.*
- PSY 3340 Psychology of Learning (3)**  
Introduction to learning and behavior in human and nonhuman animals, including fundamental principles and findings from laboratory investigations of classical, instrumental, cognitive, and social learning.
- PSY 3346 Educational Assessment (3)**  
This course provides a study of measurement and evaluation techniques for the classroom teacher. Emphasis will be placed on the selection, evaluation, administration, scoring and interpretation of selected measures of student performance, achievement and behavior. The student will demonstrate skills in utilizing measurement data to plan appropriate learning activities for students. *Prerequisite: Admission to TEP. NOTE: May not be used to meet the requirements for the psychology major or minor.*
- PSY 3351 Theories of Learning (3)**  
Critical analysis of the major theories of learning, including the works of Pavlov, Thorndike, Guthrie, Tolman, Hull, Skinner, and Mowrer.
- PSY 3360 Forensic Psychology (3)**  
Forensic psychology is the application of the science and profession of psychology to questions and issues relating to law and the legal system. This course will introduce students to the specialty area of forensic psychology. Particular emphasis will be on applied aspects of the field. *Prerequisite: Six semester hours of psychology.*
- PSY 3365 Human Factors Psychology (3)**  
Analysis of theoretical issues and research methods related to the interaction between people and machines and human performance. Topics include information processing theory, human control systems and displays, task simulation, perceptual and motor factors limiting human performance. *Prerequisite: Six semester hours of psychology.*
- PSY 3370 Comparative Psychology (3)**  
This course examines the development, causal mechanisms, evolutionary history, and function of the behavior of animals, including humans.
- PSY 3380 Social Psychology (3)**  
A theoretical and empirical analysis of social behavior, including selected topics related to social perception, social influence, social interaction, and applied social psychology.
- PSY 3385 Evolutionary Psychology (3)**  
An examination of human behavior and cognition from an evolutionary perspective.
- PSY 3390 Special Topics in Psychology (3)**  
An examination of selected topics or issues in psychology. May be repeated for credit when the course content varies. *Prerequisite: Six semester hours of psychology.*
- PSY 4400 Advanced General Psychology (3)**  
A comprehensive study of the discipline of psychology designed to expand the student's depth and breadth of knowledge in psychology. *Prerequisite: 15 semester hours of psychology.*
- PSY 4401 Psychological Tests and Measurements (3)**  
Selection, evaluation, administration, scoring, interpretation and uses of tests of intelligence, proficiency, interests, personality, aptitude and social adjustment. *Prerequisite: PSY 3301, additional three semester hours of psychology.*
- PSY 4402 Principles of Counseling (3)**  
Overview of major counseling theories and techniques, interviewing, assessment, professional issues and ethics, and a review of research and practical problems. *Prerequisite: Six semester hours of psychology.*
- PSY 4405 Experimental Psychology (3)**  
Various techniques for conducting scientific research in psychology will be discussed. Course objectives include designing and conducting an experiment as well as analyzing and reporting the results. *Prerequisite: PSY 3301, additional three semester hours of psychology.*
- PSY 4410 Business and Industrial Psychology (3)**  
Application of psychology in business and industry, including employee selection, performance appraisal, motivation, organizational psychology, consumer motivation, group structures, and personnel problems.
- PSY 4420 Physiological Dynamics of Alcohol and Other Drugs (3)**  
Study of physiological and psychological dynamics and resultant behavioral implications in use of alcohol and other drugs. Based on assessment of dynamics and behavior and application of diagnostic procedures using appropriate manuals and materials. *Prerequisite: senior standing.*
- PSY 4421 Physiological Psychology (3)**  
The physiological correlates of behavior will be examined, including such topics as neurotransmitters and hormones, drugs, and the biological roots

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of mental disorders. *Prerequisite: Six semester hours of psychology.*

- PSY 4430 Introduction to Substance Abuse Counseling (3)**  
This course provides an introduction to substance abuse counseling through studies of mind-altering substances; etiological theories of addiction; assessment interviewing and screening tests; individual, group, family, and other treatment options; relapse prevention; and community prevention programs.
- PSY 4434 Drug Education, Prevention and Intervention (3)**  
A study of commonly abused drugs, drug abuse prevention, and treatment techniques. Examines characteristics of people at high risk to become substance abusers/addicted. *Prerequisite: senior standing.*
- PSY 4435 Treatment of Addictive Family Diseases (3)**  
A study of typical characteristics of dysfunctional families. Provides the basis for suggested intervention techniques, appropriate areas of family education, and guidelines for effective therapy. *Prerequisite: senior standing.*
- PSY 4436 Treatment Theories and Modalities of Addictive Diseases (3)**  
A study of historical perspectives and the most effective treatment and assessment approaches of addictive diseases. *Prerequisite: senior standing.*
- PSY 4450 Theories of Personality (3)**  
Critical analysis of major theories and systems of personality. *Prerequisite: Six semester hours of psychology.*
- PSY 4451 History and Systems of Psychology (3)**  
Study of the development of psychology from its historical antecedents with special emphasis placed on contemporary schools and systems of psychological thought. *Prerequisite: Six semester hours of psychology.*
- PSY 4456 Gerontology (3)**  
The study of aging. Emphasis on biomedical, psychological, and social aspe

**PSY 4493 Guided Independent Study (1-3)**

Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills. *Prerequisite: Junior or senior status, permission of guiding professor, approval of department chairperson and the dean. A written request is to be submitted to the depart-*

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*the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for*

## RISK MANAGEMENT AND INSURANCE COURSES (RMI)

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- RMI 3335 Principles of Risk Management and Insurance (3)**  
An introduction to the legal principles underlying insurance, the basics of risk management, the application of risk management techniques to personal risk management problems, personal property and liability insurance contracts including the personal auto policy and the homeowner's package, insurance regulation, and the insurance marketplace.
- RMI 3340 Surplus Lines and Reinsurance (3)**  
A study of the excess and surplus lines insurance markets as well as the reinsurance sector of the insurance industry. The course covers the formation and classification of these companies, their distribution systems, their regulation, their accounting procedures, and a comparison of these companies to admitted insurers. *Prerequisite: RMI 3335 or permission of department chair.*
- RMI 3342 Insurance Operations (3)**  
The focus of Insurance Operations is the key operational activities of insurance organizations. The course specifically covers marketing and distribution systems, underwriting, principles of rate-making, reinsurance, statutory accounting, and financial analysis. Each of the functional areas is discussed within the context of regulatory and public policy issues. *Prerequisite: RMI 3335 or permission of department chair.*
- RMI 3346 Life and Health Insurance (3)**  
Study of types of life insurance and annuity contracts and their uses; regulations of life and health insurers; development of financial plans utilizing life insurance products; Social Security; group and individual health insurance products including major medical, disability income and long-term care policies and analysis of the marketplace. *Prerequisite: RMI 3335 or permission of department chair.*
- RMI 3348 Property and Liability Insurance (3)**  
The fundamentals of commercial property and liability insurance including contracts, rating, underwriting, regulation and financial analysis of insurers. *Prerequisite: RMI 3335 or permission of department chair.*
- RMI 4440 Corporate Risk Management (3)**  
A study of the analysis and treatment of the pure risks faced by the business organization. The course includes development of the risk management process, exploration of the use of various risk management techniques on identified exposures, and the application of the process and the techniques in a risk management case study. *Prerequisite: RMI 3335 or permission of department chair.*
- RMI 4449 Risk Management and Insurance Seminar (3)**  
Focuses on current problems and issues in risk management and insurance. This is the capstone course in the Risk Management/Insurance curriculum and should be taken the senior year. The

course will include communication, teamwork, and computer skills. *Prerequisite: RMI 3335 or permission of department chair.*

**RMI 4460 Agency Management (3)**

The Agency Management course is designed to teach the fundamentals of establishing and operating an insurance agency or brokerage. This is a project-oriented class wherein students develop mission statements, strategic plans, marketing plans, operating plans and time charts in the areas of forming the corporation, licensing, choosing a product mix, developing markets, planning technology, staffing, training, sales, handling claims, and other administrative functions. *Prerequisite: RMI 3335 or permission of department chair.*

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## RUSSIAN COURSES (RUS)

**RUS 1101 Introductory Russian I (3-3)**

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- SCI L335 Physical Geology Lab (1-2)**  
Laboratory studies of constructive and destructive processes which alter the earth. *Co-requisite: SCI 3335.*
- SCI 3336 Principles of Astronomy (3)**  
Basic facts and theories related to astronomical phenomena. *Co-requisite: SCI L336.*
- SCI L336 Observational Astronomy Laboratory (1)**  
Star and constellation identification and observations using the telescope. *Co-requisite: SCI 3336.*
- SCI 3340 Marine Science (3)**  
A study of the physical properties and organisms of the marine environment. *Co-requisite: SCI L340.*
- SCI L340 Marine Science Laboratory (1-2)**  
Laboratory study of the physical properties and organisms of the marine environment. *Co-requisite: SCI 3340.*
- SCI 3350 Weather and Climate (3)**  
A study of the physical properties of weather and climate. *Co-requisite: SCI L350.*
- SCI L350 Weather and Climate Laboratory (1-2)**  
Laboratory study of physical properties of weather and climate. *Co-requisite: SCI 3350.*
- SCI 4403 Conservation (3)**  
The conservation of natural and human resources with emphasis on population expansion as the major element in a changing ecology.
- SCI 4474 Internship in Science Education (9)**  
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Pro-



*not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."*

**SED 4474 Secondary Internship in Grades 6-12 (9)**

The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. *Prerequisite: Admission to TEP. Co-requisite: SED 4454.*

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**SOCIOLOGY COURSES (SOC)**

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**SOC 2230 Social Problems in Contemporary Society (3)**

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**SOC 3380 Social Behavior (3)**

Analysis of social behavior based on empirical research. *Prerequisites: junior or senior standing and six hours of psychology, ENG 1102, or permission of instructor. NOTE: May be taken for psychology or sociology credit, but not for both.*

**SOC 4406 Urbanism (3)**

Historical, physical, economic, and social evolutions of urbanized areas. Emphasis on contemporary urban problems with implications for policy and planning. *Prerequisite: Twelve hours of social science.*

**SOC 4408 Rural America: Past and Present (3)**

A study of rural society, its organization, agencies, institutions, population trends and composition, patterns of settlement, social processes and change in character. *Prerequisites: Twelve hours of social science.*

**SOC 4409 Political Sociology (3)**

An overview of politics and political systems from earliest times to the present with some emphasis on democratic systems in the U. S. and other modern countries. *Prerequisite: Junior standing.*

**SOC 4411 Demography and Population Analysis (3)**

Overview of sociological and demographic theories of the growth, decline,

**procedures.** *Prerequisites: Junior or senior standing with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which the study is to be undertaken.*



contemporary communication theories. *Prerequisite: SPH 2241 or permission of the instructor.*

- SPH 3330 Interviewing (3-3)**  
Study of the principles and practices of professional and personal interviewing, with an emphasis on oral communication and related topics such as resume writing.
- SPH 3341 American Public Address (3-3)**  
Study of the history and rhetorical criticism of major American speakers and their speeches from the Colonial to the Contemporary periods, with references to their biographical, intellectual, political and social contexts.
- SPH 3342 Argumentation and Debate (3-3)**  
Study and application of the principles of argumentation and debate, including selected aspects of the management of a program of competitive forensics. *Prerequisite: SPH 2241 or permission of the instructor.*
- SPH 3345 Group discussion and Leadership (3-3)**  
Study and application of the principles and practices of group problem solving through the study of the dynamics of discussion and group leadership.
- SPH 4431 Interpersonal Communication (3-3)**  
Study of theories of communication behavior in relatively unstructured face-to-face situations, including small-group discussion. *Prerequisite: SPH 2241 or permission of the instructor.*
- SPH 4441 Oral Interpretation (2-2)**  
Study and application of the principles and practices of oral interpretation (reading) of literature, including individual and ensemble performance. *Prerequisite: SPH 2241 or permission of the instructor.*
- SPH 4442 Rhetoric (3-3)**  
Study of the historical development of rhetorical theory in Western thought from the classical to the contemporary periods and its relationship to practice and criticism. The course includes opportunities for advanced public speaking and small-group discussion. *Prerequisite: SPH 2241 or permission of the instructor.*
- SPH 4455 Speech Senior Capstone (2)**  
Design and execution of a major field-related or other research project and formal presentation of results thereof. Together with the taking of a comprehensive exit exam, the student will thereby demonstrate competency in the components of speech communication. *Prerequisite: SPH or permission of the instructor.*
- SPH 4491-4492 Guided Independent Research (1-3 credit hours per course)**  
Additional information is indexed under Guided Independent Research and Study.

**SPH 4493-4494 Guided Independent Study (1-3 credit hours per course)**

Additional information is indexed under Guided Independent Research and Study.

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**SPANISH COURSES (SPN)**

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*Note: For additional information, see Placement in Academic Courses.*

- SPN 1141 Introductory Spanish I (3)**  
Introduction to the Spanish language and Hispanic

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Spanish America. *Note: May be repeated for credit. Prerequisite: SPN 2242 or permission of instructor.*

**SPN 4450 Hispanic Culture and Civilization (3)**

A survey of the geography, history, cultural achievements, institutions and daily life of Spain and other Hispanic countries. *Prerequisite: SPN 2242 or permission of instructor.*

**SPN 491-4492 Guided Independent Research (1-3 credit hours per course per semester)**

Additional information is indexed under Guided Independent Research and Study.

**SPN 4493-4494 Guided Independent Study (1-3 credit hours per course per semester)**

Additional information is indexed under Guided Independent Research and Study.

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**SOCIAL SCIENCE COURSES (SS)**

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**SS 3375 Introduction to Social Science Inquiry (3)**

Principles of pure and applied research for the social sciences. Special emphasis is given to the types of research methods employed by social scientists including survey techniques, field research, quasi-experimental designs and analytical procedures currently used in the social sciences. *Prerequisite: general studies math.*

**SS 3376 Applications of Social Science Inquiry (3)**

A detailed description of what social scientists do with the information they gather. Particular atten-

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**SWK 3303 Crisis Intervention (3)**

Case management techniques for dealing with crisis. Crisis theory, stress management, and time-

