

ACCOUNTING COURSES (ACT)

ACT 2291 Principles of Accounting I (3)
Modern financial accounting theory and practices
applied to sole proprietorships, partnerships, and

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- ACT 4497 Auditing (3)
Auditing theory as contained in official pronouncements. Emphasis will be placed on material required for the CPA exam as it relates to professional ethics, audit engagement, internal control, audit sampling, evidence gathering and auditors' reports. Accounting majors must complete this course with a grade of C or better. Prerequisite: ACT 3392.
- ACT 4498 Fraud Examination—Advanced Auditing (3)
Auditing theory and procedures as applied to fraud prevention, detection and investigation. Accounting majors must complete this course with a grade of C or better. Accounting majors must complete this course with a grade of C or better. Prerequisite: ACT 4497.
- ACT 4499 Accounting Internship (1 to 3 credit hours per course per semester)
Internship in local, regional or national firm. Requires junior or senior standing and individual approval for the internship program. See "Internship Program" for additional requirements. Accounting majors must complete this course with a grade of C or better.

ANTHROPOLOGY COURSES (ANT)

- ANT 2200 Anthropology (3)
An examination of human, physical and cultural development using evidence from archaeology, paleontology, genetics, ecology, cultural anthropology and linguistics with emphasis on the historical, structural and symbolic aspects of human culture. This course is prerequisite for all 3300 and 4400 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)

tural systems that formed the foundations of pre-industrial high civilizations of the New World and a survey of past cultures that achieved this degree of development.

ANT 4420 Forensic Osteology (3)
A survey of the methods used in recovering human osteological remains from field sites. It includes methods used in identifying, preserving, and recording data from human osteological remains, and the methods used in determining the cause of death, age, sex, race, and ~~size~~ stature of individuals from human osteological remains.

ANT 4491-92 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

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- ART 2228 Photo Studio I (3-5)
Introduction to the fundamentals of black and white darkroom photography.
- ART 2230 Color and Technology (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)
Survey of the history of art from antiquity through the Gothic period.
- ART 2251 Survey of Art History II (3)
Survey of the history of art from Renaissance through Realism.
- ART 3301 Life Drawing (3-5)
Drawing the human form with emphasis on rendering mood and expression while learning skeletal and muscular structure.

ART 3361 Integrating Art into the Curriculum (3)
Critical and experiential investigation of ap-

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AS L313 Leadership Laboratory II (1)

Leadership laboratory is mandatory for AFROTC cadets and it complements the AS 3313 course by providing cadets with advanced leadership experiences in officer-type activities thus giving students the opportunity to apply leadership and management principles.

AS 4412 National Security Affairs/Preparation for Active Duty I (3)

The first 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 L412 Leadership Laboratory I (1)

Leadership laboratory is mandatory for AFROTC cadets and it complements the AS 4412 course by providing cadets with advanced leadership experiences, giving students the opportunity to apply the leadership and management principles.

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.

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competencies and proficiencies that are introduced
in the didactic setting. Prerequisite: Acceptance

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	in this course. Prerequisites: Acceptance into ATEP, AT 3302		function of the human body. Credit for this course cannot be applied toward any curriculum in biology. Corequisite: BIO L110.
AT 4402	Athletic Training Field Experience (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.	BIO L110	Survey of the Human Body Lab (1-2) Human physiology and the role that humans play in the biosphere. Credit for this course cannot be applied toward any curriculum in biology. Corequisite: BIO 1110.
AT 4447	Therapeutic Modalities (3) 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.	BIO 2202	Principles of Environmental Science (3) The consequences of human activities on the environment, emphasizing current global problems, social attitudes, and potential solutions. Prerequisites: BIO 1100/L100. Corequisite: BIO L202.
AT L447	Therapeutic Modalities Lab (1) Lab accompanying AT 4447. Students will learn psychomotor skills through the clinical application of therapeutic modalities on the physically active. Corequisite: AT 4447.	BIO L202	Principles of Environmental Science Lab (1-3) Laboratory and field-oriented experiences designed to enhance understanding of environmental concepts and issues. Prerequisites: BIO 1100/L100. Corequisite: BIO 2202.
AT 4448	Therapeutic Exercises (3) Acquaints the entry-level athletic training student with the knowledge of the athletic training educational competencies as they relate to the use of therapeutic exercise. Prerequisites: AT 3301, 4447.	BIO 2205	Career Opportunities in Medicine and Allied Health Professions (1) An introduction to medicine and allied health professions, including academic requirements, job opportunities, and future trends. Professionals from different fields will discuss their specialties to provide students with realistic perspectives.
AT L448	Therapeutic Exercises Lab (1) Lab accompanying AT 4448. Students will learn psychomotor skills through the clinical application of therapeutic exercise on the physically active. Corequisite: AT 4448.	BIO 2220	Principles of Cell Biology (3) Introduction to cell structure and function with emphasis on comparative morphology, organelle structure and function, and cell physiology. Prerequisites: BIO 1101/L101. Corequisite: BIO L220.
<hr/> BIOLOGY COURSES (BIO) <hr/>		BIO L220	Principles of Cell Biology Lab (1) Laboratory studies of cell biology with an emphasis on cell anatomy, function and specialization. Prerequisite: BIO 1101/L101. Corequisite: BIO 2220
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. Corequisite: BIO L100.	BIO 2229	General Ecology (3) The relationships of living organisms to one another and to the nonliving environment. Basic ecological concepts with the emphasis on bioenergetics, limiting factors, adaptation to a changing environment, the niche, ecological pyramids, and succession. Prerequisites: BIO 1100
BIO L100	Principles of Biology Lab (1-2) Measurements, microscopy, ecology, cell structure, bioenergetics, cell reproduction, and heredity. Corequisite: BIO 1100.		
BIO 1101	Organismal Biology (3) Biological concepts and processes of protists, fungi, plants, and animals. Prerequisites: BIO 1100/L100. Corequisite: BIO L101.		
BIO L101	Organismal Biology Lab (1-2) Survey of organisms from selected phyla, including anatomy, phylogeny, and life histories. Prerequisites: BIO 1100/L100. Corequisite: BIO 1101.		
BIO 1110	Survey of the Human Body (3) Biological principles related to the role of humans in an ecosystem, with emphasis on the structure and		

BIO L307	Invertebrate Zoology Lab (1-3) Anatomy, classification, and life histories of invertebrates Prerequisites: BIO 1101/L101. Corequisite: BIO 3307.	BIO L328	Environmental Pollution and Control Lab (1-3) Field and laboratory techniques for air, water, land, and noise pollution Prerequisites: BIO 2202/L202, 2229/L229, CHM 1143/L143. Corequisite: BIO 3328.
BIO 3308	Vertebrate Zoology (3) Taxonomy, structure, life histories, behavior, and distribution of vertebrates Prerequisites: BIO 1101/L101. Corequisite: BIO L308.	BIO 3340	Evolution (3) Evolution is the fundamental unifying theory in biology. The course will introduce the major principles of evolutionary biology such as evolutionary genetics, adaptation and natural selection, biological diversity, paleobiology and macroevolution.
BIO L308	Vertebrate Zoology Lab (1-3) Taxonomy, structure, life histories, and behavior of vertebrates Prerequisites: BIO 1101/L101. Corequisite: BIO 3308.	BIO 3347	Human Anatomy and Physiology I (3) Anatomical terminology, 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. Corequisite: BIO L347.
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. Corequisite: BIO L320.	BIO L347	Human Anatomy and Physiology I Lab (1-3) Anatomical terminology, 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. Corequisite: BIO 3347.
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. Corequisite: BIO 3320.	BIO 3348	Human Anatomy and Physiology II (3) The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems of humans Prerequisites: a grade of C or better in BIO 3347/L347. Corequisite: BIO L348.
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. Corequisite: BIO L325.	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. Corequisite: BIO 3348.
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. Corequisite: BIO 3325.	BIO 3355	Microscopy and Microtechnique (4) Study of the theory, operation and use of light and electron microscopy techniques. Study of specimen preparation techniques for the light and electron microscope Prerequisites: BIO 1101/L101, CHM 1143/L143.
BIO 3326	Plant Diversity (3) Taxonomy, structures, reproduction, and life cycles of fungi, algae, bryophytes, and vascular plants. Prerequisites: BIO 1101/L101. Corequisite: BIO L326.	BIO 3372	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. Corequisite: BIO L372.
BIO L326	Plant Diversity Lab (1-3) Taxonomy, structures, reproduction, and life cycles of fungi, algae, bryophytes, and vascular plants. Prerequisites: BIO 1101/L101. Corequisite: BIO 3326.	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. Corequisite: BIO 3372.
BIO 3328	Environmental Pollution and Control (3) Sources, effects, and methods of control for air, water, land, and noise pollution Prerequisites: BIO 2202/L202, 2229/L229, CHM 1143/L143. Corequisite: BIO L328.		

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- 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. Corequisite: 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. Corequisite: 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. Corequisite: 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. Corequisite: 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 cycle. Prerequisites: BIO 1101/L101. Corequisite: BIO L405.
- BIO L405 Entomology Lab (1-3)
Morphology, classification, and identification of insects. A collection is required. Prerequisites: BIO 1101/L101. Corequisite: BIO 4405.
- BIO 4410 Animal Behavior (3)
Classification of animal behavior. Prerequisites: BIO 1101/L101. Corequisite: BIO L410.

	sites: BIO 2229/L229, 3320/L320, CHM 1143/L143, MTH 2210. Corequisite: BIO 4421.	BIO 4446	Herpetology (3) Morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of amphibians and reptiles. Prerequisites: BIO 1101/L101, 2229/L229. Corequisite: BIO L446.
BIO 4425	Field Botany (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 L446	Herpetology Lab (1-3) Structural features, identification, and classification of amphibians and reptiles. Prerequisites: BIO 1101/L101, 2229/L229. Corequisite: BIO 4446.
BIO 4430	Applied Genetics (3) Advanced studies in genetics with emphasis on cytogenetics and molecular genetics. Prerequisites: BIO 3320/L320, 3372/L372, CHM 3343/L343. Corequisite: BIO L430.	BIO 4447	Ornithology (3) Morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of birds. Prerequisites: BIO 1101/L101, 2229/L229. Corequisite: BIO L447.
BIO L430	Applied Genetics Lab (1-3) An introduction to procedures and equipment used in the study of cytogenetics and molecular genetics. Prerequisites: BIO 3320/L320, 3372/L372, CHM 3343/L343. Corequisite: BIO 4430.	BIO L447	Ornithology Lab (1-3) Structural features, identification, and classification of birds. Prerequisites: BIO 1101/L101, 2229/L229. Corequisite: BIO 4447.
BIO 4432	Comparative Vertebrate Anatomy (3) Detailed study of vertebrate organ-systems with emphasis on structural and functional morphology and evolutionary relationships. Prerequisites: Any 3000-level biology lecture and lab. Corequisite: BIO L432.	BIO 4448	Mammalogy (3) Morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of mammals. Prerequisites: BIO 1101/L101, 2229/L229. Corequisite: BIO L448.
BIO L432	Comparative Vertebrate Anatomy Lab (1-3) Detailed study of the shark, mudpuppy, and cat with emphasis on structural and functional morphology. Prerequisites: Any 3000-level biology lecture and lab. Corequisite: BIO 4432.	BIO L448	Mammalogy Lab (1-3) Structural features, identification, and classification of mammals. Prerequisites: BIO 1101/L101, 2229/L229. Corequisite: BIO 4448.
BIO 4433	Embryology (3) Embryonic development of vertebrates. This course links cellular and molecular mechanisms to morphogenesis. Prerequisites: BIO 3320/L320, 3372/L372, CHM 3343/L343. Corequisite: BIO L433.	BIO 4451	Toxicology (3) Principles related to the adverse effects of chemicals on living organisms. Prerequisites: CHM 3342/L342. Corequisite: BIO L451.
BIO L433	Embryology Lab (1-3) Embryonic development of vertebrates as illustrated by the frog, chick, and pig. Lab includes experimental investigation of developing systems. Prerequisites: BIO 3320/L320, 3372/L372, CHM 3343/L343. Corequisite: BIO 4433.	BIO L451	Toxicology Lab (1-3) Assessment of the toxicity of chemical agents following standard protocols. Prerequisites: CHM 3342/L342. Corequisite: BIO 4451.
BIO 4445	Ichthyology (3) Morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of fishes. Prerequisites: BIO 1101/L101, 2229/L229. Corequisite: BIO L445.	BIO 4452	Industrial Hygiene (3) Identification and correction of chemical, biological, and physical hazards in and around the workplace. Prerequisites: CHM 3343/L343. Corequisite: BIO L452.
BIO L445	Ichthyology Lab (1-3) Structural features, identification, and classification of freshwater and marine fishes. Prerequisites: BIO 1101/L101, 2229/L229. Corequisite: BIO 4445.	BIO L452	Industrial Hygiene Lab (1-3)

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- BIO L471 Parasitology Lab (1-3)
Laboratory study of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance. Prerequisites: Any 3000-level biology lecture and lab. Corequisite: BIO 4471.
- BIO 4480 Histology (3)
Microscopic anatomy and fu
- BIO 4474 Internship in Biology 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: SED 4454 Internship Seminar for Secondary Education.
- BIO 4476 Special Topics in Biology (1 to 4 credit hours per course per semester)
Specialized topics not generally included in course offerings. Prerequisite: Permission of instructor.
- 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. Corequisite: BIO L478.
- BIO L478 Cell Biology Lab (1-3)
Experimental approaches for studying cells at the biochemical and molecular level. Prerequisites: BIO 3320/L320, 3372/L372, CHM 3343/L343. Corequisite: 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. Corequisite: 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. Corequisite: BIO 4479.

BUSINESS COURSES (BUS)

- BUS 1101 Introduction to Business (3)
Topics covered include management, the free enterprise system, accounting, finance, marketing, economics, international business and other business

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CHM 3342 Organic Chemistry I (3)

An introduction to the chemistry of carbon compounds that develops theoretical principles underlying organic materials. Prerequisites: CHM 1143/L143. Corequisite: CHM L342.

CHM L342 Organic Chemistry I Lab (1 - 3)

Experimental techniques and skills for preparing, manipulating, and reacting organic molecules. Corequisite: CHM 3342.

CHM 3343 Organic Chemistry II (3)

A continuation of CHM 3342 with emphasis on modern organic synthesis. Prerequisites: CHM 3342/L342. Corequisite: CHM L343.

CHM L343 Organic Chemistry II Lab (1 - 3)

Experimental techniques and skills for preparing, manipulating, and reacting organic molecules. Corequisite: 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/L253; or PHY 2263/L263. Corequisite: CHM L350.

CHM L350 Principles of Physical Chemistry Lab (1-3)

Practical applications of thermochemistry, colligative properties, and reaction kinetics. Corequisite: CHM 3350.

CHM 3352 Biochemistry (3)

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requisite: admission to TEP; Corequisite: SED

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- CJ 3375 Introduction to Social Scientific 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.
- CJ 3376 Application of Social Scientific Inquiry (3)
A detailed description of what social scientists do with the information they gather. Particular attention is given to descriptive and inferential statistics, the relationship between research and policy, evaluation research, and research ethics. Prerequisite: General studies math.
- CJ 4415 Correctional Systems and Practices (3)
An examination of the day-to-day operations and practices in modern correctional facilities in the local, state, and federal systems.
- CJ 4420 Comparative Criminal Justice (3)
A comparative examination of criminal justice systems throughout the world with specific attention given to legal and political systems, organization 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.

CJ 4491-92	Guided Independent Research (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.	CLA 4492	Guided Independent Research (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.
CJ 4493-94	Guided Independent Study (1 to 3 credit hours per course semester) Additional information is indexed under Independent Study and Research.	CLA 4493	Guided Independent Study (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.
CJ 4499	Senior Seminar in Criminal Justice (3) This is a capstone course designed to (1) help seniors integrate the knowledge gained from their other required criminal justice courses, (2) assist them in developing analytical thinking skills through focusing on selected topics using a seminar approach, and (3) support them in gaining a better understanding of the criminal justice profession and the role they may play in it.	CLA 4494	Guided Independent Study (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.

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. 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 Independent Study and Research.

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programming and systems. Topics include classes, data hiding, modularity, inheritance, and reusable code presented through the use of some object-oriented language
Prerequisite: CS 3360

CS 3365 Introduction to Computer Organization and Architecture (3)
Organization and operation of computer systems. Topics include hardware components of digital computers, micro-programming, memory management, interrupt organization, addressing modes, and instruction formats
Prerequisite: CS 3310

CS 3370 Nature of Programming Languages (3)
Basic principles and concepts of programming languages including what a programming language is, various paradigms that a language can follow, and how its syntactical and semantic structures can be specified. The traditional object-oriented paradigm will be presented as well as non-traditional paradigms based on symbolic logic (logic programming) and on functions in lambda calculus (functional programming)
Prerequisite: CS 3323 or 3330.

CS 3372 Formal Languages and the Theory of Computation (3)
Formal languages and the theory of computation. Topics include automata theory, formal languages, and the theory of computation.
Prerequisite: CS 3370 or 3372

CS 4495	Special Topics in Computer Science (3) Topics in computer science that are not included in regular course offerings. Specific contents are announced in the course schedule for a given term. Prerequisites: senior standing or consent of instructor.	and musicality Prerequisite: Audition placement or permission of the Department of Theatre and Dance.
<hr/> DANCE COURSES (DAN) <hr/>		
DAN 1130	Social Dance in the 21st Century (1) A cross-cultural survey of theories and styles of dance, their relationship to societal contexts and other art forms.	DAN 2237
DAN 1132	Contemporary I (1) Development of technical skills in beginning contemporary dance, including rhythmic perception and spatial awareness with introduction to aesthetic and expressive qualities that lead to performance.	DAN 2252
DAN 1134	Ballroom Dance An introduction to social dancing with an emphasis on American ballroom dances (foxtrot, waltz, swing) and Latin ballroom dances (cha cha, mambo, tango). Equivalent to KHP 1134.	DAN 3300
DAN 1135	Ballet I (1) The development of technical skills in beginning ballet, including safe and efficient alignment and clear articulation of movement vocabulary with emphasis on increased vocabulary and musicality.	DAN 3330
DAN 1136	Jazz I (1) The study and application of the fundamental concepts, skills, movement vocabulary, and artistic expression specific to beginning jazz dance.	DAN 3332
DAN 1137	Tap I (1) Progressive development of beginning to low/intermediate movement concepts, skills, vocabulary, and styles specific to tap dance.	
DAN 2200	Orientation to Dance (2) Introduction to the basic concepts and principles common to ballet, contemporary and jazz dance through studio experience, discussions and concert attendance. This is a skills class.	
DAN 2232	Contemporary II (2) Refinement of technical skills in contemporary/modern dance at the intermediate/high intermediate level, including complex movement capabilities, rhythmic structures, spatial relationships, movement vocabulary with emphasis on aesthetic and expressive qualities that lead to performance. Prerequisite: Audition placement or permission of the Department of Theatre and Dance.	
DAN 2235	Ballet II (2) Further development of technical skills in intermediate ballet, including dynamic alignment, body/mind connection, with emphasis on self-expression through the ballet aesthetic and increased vocabulary	

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DAN 3380 Travel Study in Dance (3)
Supervised study of dance through travel abroad or within the United States. May be repeated for credit. Prerequisite: Permission of instructor.

DAN 3388 Dance Practicum I (1)

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3310, admission to TEP

DRA 4491-92 Guided Independent Research (1 to 3 credit hours per course)
Information is indexed under Independent Study and Research.

DRA 4493-94 Guided Independent Study (1 to 3 credit hours per course)
Information is indexed under Independent Study and Research.

DRA 4496-97 Internship (3 to 6 credit hours per course)
An internship with a recognized professional theatre program or company in which the student is assigned specific tasks one of the recognized areas of theatre arts. The number of credit hours earned will depend upon the number of hours contracted for in the internship agreement. The course is designed to give the student an opportunity for practical application of skills in theatre arts in a professional theatre setting. The student must apply and meet admission requirements.

INTERNATIONAL ECONOMIC DEVELOPMENT COURSES (ECD)

ECD 3360 Principles of International Economic Development (3)

- EDU 4400 Classroom Management (3)
This course is designed for all education majors. The purpose of this course is to establish a foundation of content and application relative to classroom management and discipline, emphasizing reflection, decision making, and integrated teaching/learning strategies. Methodologies utilized will include discussion, lecture, field experience, case studies, problem solving sessions, projects, and research.
- EDU 4452 Discourse Analysis II (3)
Students will develop a better understanding of the broad methodological areas of discourse analysis and conversation analysis as an approach for understanding signed languages and English, particularly in the context of interpreting.
Prerequisite: EDU 3366
- EDU 4456 Advanced Voice to Sign Interpreting / Transliterating (3)
Focuses on interpreting/transliterating from spoken English to ASL or Manual Codes for English.
Prerequisites: ASL 2242; Intermediate Plus level on SCPI; or permission of instructor.
- EDU 4457 Advanced Sign to Voice Interpreting / Transliterating (3)
Focuses on interpreting/transliterating from ASL or Manual Codes for English to spoken English. Students develop appropriate use of register and cross-cultural bridging techniques.
Prerequisites: ASL 2242; Intermediate Plus level on SCPI; or permission of instructor.
- EDU 4458 Advanced Interactive Interpreting (3)
Course focuses on consecutive and simultaneous interpreting and transliterating. Students will develop skills in team interpreting in interactive settings.
Prerequisites: ASL 2242, EDU 2200 and 3360; or Advanced Level on SCIP; or permission of instructor.
- EDU 4462 Practicum I: Seminar and Field Experiences (3)
This is a field experience course in which interpreter trainees have the opportunity to interview, observe, interact with and shadow interpreters in public venues.
Prerequisite: Completion of coursework.
- EDU 4463 Practicum II: Seminar and Field Experiences (3)
This is a field experience course in which interpreter trainees have the opportunity to team interpret with credentialed interpreters. Trainees will interpret in one-on-one situations for which they are qualified.
Prerequisite: EDU 4462
- EDU 4465 Internship: Educational Interpreting (6)
The internship provides an opportunity for the student to perform, under supervision, a variety of

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EDU 4493-94 Guided Independent Study (1 to 3 credit hours)

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 chair and the dean. A written request is to be submitted to the department chair 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.

ELEMENTARY EDUCATION COURSES (ELE)

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

This course provides a study of the varied d1tyev267 -[((3))TJ /TTpo:h1EMeE

This course provides a study of the varied d1tyev267 -[((3))TJ /TTpo:

ENG 1100 Preparatory English (3)
 Developmental instruction in composition and mechanical skills needed to write clear, effective sentences and paragraphs involves application of appropriate computer software and a variety of written activities. Students are placed in this course, ENG 0096, or ENG 1101 depending on placement exam score; see the local campus testing center for specific cut-off scores. Students may also be required to attend weekly sessions at a writing and/or computer center. Note: Under no circumstances may this course substitute for any general studies requirement; nor may it be used to meet minimum degree requirements. Grade C or better required.

ENG 1101 Composition And Modern English I (3)
 Intensive instruction in the writing process. Focuses on organization of ideas in well-developed expository and argumentative essays (usually six to eight essays), with stress on grammar, punctuation, and vocabulary development. A grade of C or better is required for credit. Must be completed within first 30 hours of enrollment. Prerequisite: Placement Testing.

ENG 1102 Composition and Modern English II (3)
 Text-based analyses and application of principles and tools of research in writing short research papers. A grade of C or better required for credit. Must be taken within first 30 hours of enrollment. Prerequisite: ENG 1101 or equivalent

ENG 1103 Honors English Composition I (3)
 Introductory study and practice of composition for the superior student. Prerequisite: Minimum English score of 27 on the ACT or 640 on the SAT, or recommendation by an 1101 instructor

ENG 1104 Honors English Composition II (3)
 Continuation of study and practice of composition for the superior student. Prerequisite: Minimum grade of C in ENG 1103 or recommendation by a 1101 or 1102 instructor

ENG 1150 Basic Study Techniques (1)
 Presentation of and practice in basic study techniques, including strategies for planning personal success, outlining materials, studying for tests, and taking tests.

ENG 2205 World Literature before 1660 (3)
 Introduction to attitudes, philosophies, and reflections of life in world literary masterpieces from the ancient world, Middle Ages, and Renaissance. Requires demonstration of acceptable writing skills. Prerequisite: ENG 1102 or equivalent

Introduction to attitudes, philosophies, and reflections of life in world literary masterpiecesT6 1 Tf -11.08 -1En4 miats3(c s)5128 Tw [(quires demon -1.0001 Tc .0tp7 08D .000s

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	<p>be on social and historical significations, on appreciation of film as a literary and art form, and on the major pioneers and contributors to the American movies. Prerequisite: six semester hours of 2000-level English courses</p>		<p>Includes technical and scientific documents such as reports, proposals, and user manuals. Prerequisite: ENG 2260 or permission of instructor.</p>
ENG 3301	<p>Women's Literature (3) Representative works of literature by women. Prerequisite: six semester hours of 2000-level English courses</p>	ENG 3351	<p>Introduction to Creative Writing I (3) Practice in writing poetry, short stories, and/or plays, along with a concentrated study of the techniques and principles of creative writing in each genre. Prerequisite: six semester hours of 2000-level English courses</p>
ENG 3303	<p>Writing across the Disciplines (3) An advanced study of writing expository, non-fiction prose which focuses on a variety of academic disciplines. Note: This course may not be used to meet English degree requirements but may be taken for free elective credit. Prerequisite: six semester hours of 2000-level English courses</p>	ENG 3352	<p>Advanced Creative Writing I (3) Continued practice in writing poetry, short stories, and/or plays, along with a more advanced study of the techniques and principles of creative writing in each genre. Prerequisite: six semester hours of 2000-level English courses; ENG 3351 or permission of instructor</p>
ENG 3305	<p>Folklore/Mythology (3) A multicultural survey of the forms and varieties of the mythology and folklore of major western cultures, emphasizing stories of Scandinavian, German, British, and American origin, and the application of these forms in modern cultures and literature. This course is recommended for English teachers seeking middle school certification. Prerequisite: six semester hours of 2000-level English courses</p>	ENG 3353	<p>Advanced Creative Writing II (3) Practice in writing poetry, short fiction, or plays for class and instructor evaluation. Prerequisite: six semester hours of 2000-level English courses; ENG 3351 or permission of instructor</p>
ENG 3310	<p>Fiction and Film (3) Representation of fiction on film, with attention to visual techniques and the translation and representation of major literary themes. Prerequisite: six semester hours of 2000-level English courses</p>	ENG 3354	<p>Advanced Nonfiction Writing (3) The literature of fact. Emphasis on student writing and analysis of nonfiction forms, such as personal narrative, autobiography, etc. in prose, and New Journalism. Prerequisite: six semester hours of 2000-level English courses; ENG 3351 or permission of instructor</p>
ENG 3315	<p>Modern Drama (3) Study of plays written between 1900 and the present. List of plays may vary with each offering. Prerequisite: six semester hours of 2000-level English courses</p>	ENG 3355	<p>Verse Writing (3) Development of techniques in the practice of poetry, including expression through metrical patterns, rhyme, rhythm, imagery, metaphor, and symbolism. Prerequisite: six semester hours of 2000-level English courses; ENG 3351 or permission of instructor</p>
ENG 3320	<p>Introduction to Linguistics (3) Overview to linguistics, the scientific study of language. The course will acquaint students with the grammatical, social, biological, and technological applications of language. Prerequisites: ENG 1101, 1102</p>	ENG 3356	<p>Form and Theory of Fiction (3) Primarily a reading course for writers. Examination of the classic texts of literary theory; analysis of the use and purpose of the elements of fiction; and discussion of fiction form, from the short-short to hyper-text. Prerequisite: six semester hours of 2000-level English courses</p>
ENG 3326	<p>Science Fiction (3) An exploration of the literary, social, and generic importance of science fiction. Prerequisite: six semester hours of 2000-level English courses</p>		
ENG 3341	<p>Advanced Grammar (3) Detailed study of the structural system of English grammar. Prerequisite: six semester hours of 2000-level English courses</p>		
ENG 3345	<p>Technical and Professional Editing (3) Principles and practices of editing technical and scientific documents. Overview of the editing process; defining the editor's roles and responsibilities, revising at structural and sentence levels, and addressing stylistic conventions of technical fields.</p>		

- ENG 3362 The Arthurian Legend through the Ages (3)
Examination of Arthur not only in literary and historical works from its earliest traces in the Middle Ages to the present, but also in archaeology, the visual and decorative arts (especially painting and sculpture), manuscript illumination, film, musical, and opera
Prerequisite: six semester hours of 2000-level English courses
- ENG 3365 Advanced Technical and Professional Writing (3)
Study of technical communication as a dynamic process in organizational and social environments, 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 or permission of instructor
- 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 or permission of instructor
- 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: six 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: six semester hours of 2000-level English courses
- ENG 4401 Chaucer (3)
Study of Chaucer's major poetry
Prerequisite: six semester hours of 2000-level English courses
- ENG 4402 Studies in Medieval Literature (3)
Study of non-Chaucerian British literature from the Middle Ages, including Beowulf, Piers Plowman, Sir Gawain and the Green Knight, mystery plays, Le Morte d'Arthur, and other works
Prerequisite: six semester hours of 2000-level English courses
- ENG 4403 English Renaissance Literature (3)
English prose and poetry of the 16th and 17th centuries with an emphasis on Sidney, Spenser, Donne, and Jonson
Prerequisite: six semester hours of 2000-level English courses
- ENG 4404 Milton (3)
Milton's poetry and major prose
Prerequisite: six semester hours of 2000-level English courses
- ENG 4405 History of the English Language (3)
Study of the development of English from the Anglo-Saxon period through the present, with reference to the Indo-European background of English.
Prerequisite: six semester hours of 2000-level English courses
- ENG 4406 Studies in British Literature Before 1660 (3)
Selections from Medieval and/or Renaissance British literatures, including classical, historical, and cultural background
Prerequisite: six semester hours of 2000-level English courses
- ENG 4410 Studies in Eighteenth-Century British Literature (3)
Selections from Restoration and 18th-century British literature and its historical and cultural background
Prerequisite: six semester hours of 2000-level English courses
- ENG 4413 Studies in Nineteenth-Century British Literature (3)
Study of Romantic and/or Victorian literatures.
Prerequisite: six semester hours of 2000 level English courses
- ENG 4414 British Novel Before 1900 (3)
Representative novels by British writers of the 18th and 19th centuries.

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- ENG 4420 Selected Topics in Creative Writing (3)
Study of a topic of special interest and importance not covered in regularly offered courses in creative writing. Prerequisites: Six semester hours of 2000-level English courses; ENG 3351 or permission of instructor. Note: may be taken for credit no more than two times
- ENG 4421 English Novel (3)
Selected 18th, 19th, and 20th century novels written in English. Prerequisite: six semester hours of 2000-level English courses
- ENG 4422 Dramaturgy I (3)
Study of selected classical, period, and contemporary plays, with emphasis on dramatic techniques, character development, and production. List of plays may vary with each offering. May require attending local productions during rehearsal and regular performance. Prerequisite: six semester hours of 2000-level English courses. 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 performance. Prerequisite: six 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: six semester hours of 2000-level English courses
- ENG 4426 Modern Poetry (3)
Study of 20th- and 21st-century poetry. Prerequisite: six semester hours of 2000-level English courses
- ENG 4427 Contemporary American Literature (3)
Examination of representative American literature from the postmodern period (1960-present), with special emphasis on the diversity of themes, styles, and cultural contexts influencing the literary marketplace. Course readings may vary with each offering. Prerequisite: six semester hours of 2000-level English courses
- ENG 4428 The Age of Johnson (3)
A study of the works of Samuel Johnson and of his most important contemporaries, from about 1745 to 1798. Prerequisite: six semester hours of 2000-level English courses
- ENG 4430 Shakespeare I: The Tragedies (3)
Study of major and minor tragedies, with some attention to non-dramatic poetry. List of plays may

they have contributed to the contemporary multi-cultural American landscape. Prerequisites: Six semester hours of 2200-level ENG courses.

- ENG 4460 Victorian Poetry (3)
A study of Victorian poetry, with emphasis upon the works of Tennyson, Browning, Arnold, and Hardy. Prerequisite: six semester hours of 2000-level English courses
- ENG 4461 Victorian Prose (3)
A survey of the works of major Victorian prose writers, with emphasis upon the works of Carlyle,

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ESL 0061 Pronunciation II Intermediate
Remedial work for students with speech irregularities. Includes sound production and differentiation, syllable stress, word stress, intonation patterns, contractions, reductions, linking, assimilation, and fast speech phenomena.

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ESL 1104 Reading VI Advanced

Helps the students be ready for academic reading. Vocabulary building through brainstorming, vocabulary lists, and close exercises that help learners guess the meaning from context and see regularity in the language. Introduces students to the lifestyles, attitudes, customs, and traditions of Americans. Reading Lab requirement: one hour per week.

ESL 1105 Grammar V High Intermediate

Review, expansion, and practice of all simple and progressive verb tenses and passive voice. Introduces modals expressing necessity and certainty, countable and uncountable nouns, quantifiers, and adjective clauses. Includes in-depth analysis of sentence structure: parts of speech, phrases, dependent and independent clauses, subordinating and coordinating conjunctions, sentence types, and sentence fragments. Independent CD-based exercises on topics covered

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marketplace activity within simulated environments
which approximate real time.
prerequisite: FIN
3332

FIN 4435 International Banking and Finance (3)
A comprehensive introduction and overview of
international finance with emphasis upon multina-
tional corporation management.
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<p>FRN 3311 French Culture on Location II (3-TBA) An in-depth presentation of French culture combining lectures, readings, film, audiotapes, discussions and intensive language practice on the Troy Campus with on-site visit to a Francophone environment. Prerequisite: Permission of instructor</p>	<p>GEM 3309 Land Parcel Administration and Law (3) The geomatics student is introduced to the basic principles of land tenure and the cadastre. The major component of the course is the study and application of survey statute and related case law. The concepts underlying the hierarchy of evidence, sequential versus simultaneous conveyances, adverse possession, riparian rights, land descriptions, and the U.S. Public Land Survey System are explored. Prerequisite: GEM 2220 or approval of the Geomatics Program Coordinator. Corequisite: GEM L309</p>
<p>FRN 4401 French Literature I (3) French literature from the Middle Ages through the Revolution of 1789. Prerequisite: FRN 3301 or 3302 or permission of instructor</p>	
<p>FRN 4402 French Literature II (3) French literature of the 19th and 20th centuries. Prerequisite: FRN 3301 or 3302 or permission of instructor</p>	<p>GEM L309 Land Parcel Administration and Law Lab (1) This laboratory explores the impact of land survey law on the practice of surveying and mapping in the state of Alabama. Focuses on the practice of writing legal descriptions, the structure of the U.S. Public Land Survey System, and courthouse research. Corequisite: GEM 3309.</p>
<p>FRN 4491-92 Guided Independent Research (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.</p>	<p>GEM 3310 Land Survey Practice (3) The issues of boundary location and retracement are central to this course. Focuses on Alabama survey history, the practice of surveying in Alabama, professional ethics, and the Standards of Practice for Surveying in Alabama. Prerequisite: GEM 3309</p>
<p>FRN 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.</p>	

SURVEYING AND GEOMATICS SCIENCES COURSES (GEM)

	<p>GEM L310 Boundary Retracement Seminar (1) The student gains practical field experience in an off-campus field boundary retracement project provided as a joint effort of Troy University, the Alabama Society of Professional Land Surveyors, and the Federal Bureau of Land Management. Prerequisite: GEM 3310</p>
<p>GEM 1100 Computer-Aided Drafting (2) This course provides students with the knowledge and skills necessary to create maps and plats. Topics of study include basic drafting principles, drawing set-up and scale, drawing commands, and orthographic projections. Corequisite: GEM L110.</p>	<p>GEM 3330 Advanced Measurement Analysis (3) Survey equipment calibration, survey astronomy, topographic mapping, control leveling, instrumentation error, and the propagation of error through survey calculations. This course is the second course of a one-year study of survey fundamentals. Prerequisite: GEM 2220,</p>
<p>GEM L110 Computer-Aided Drafting Lab (2) The lab provides the opportunity for students to use computer-aided drafting software to complete project drawings under the direct supervision of a CAD professional. Corequisite: GEM 1100</p>	
<p>GEM 2220 Basics of Surveying (3) This course provides each student an introduction to measurement theory, instrumentation, measurement systems, measurement computations, data accuracy and precision. The structure of the field of geomatics is explored. Major components of the course are survey statistics, traverse computations, coordinate systems and datums, elevations, and mapping. The use of computer-aided drawing software to produce maps and plats is required. Prerequisites: MTH 1125, PHY 2252, L252</p>	
<p>GEM L220 Basics of Surveying Lab (1) This field laboratory provides the opportunity to use instrumentation to make the necessary measurements to produce computed products. Focuses on the use of a field book to record measurements, the analysis of field measurements, and the use of survey instrumentation. Corequisite: GEM 2220</p>	

GEM L366 Photogrammetry and Remote Sensing Lab (1)
 Use of computer software to view and enhance photographs, to form stereomodels, to create digital elevation models, and produce orthophotos. The opportunity to use a softcopy photogrammetric workstation to generate map compilation products is provided to the student.
 Corequisite: GEM 3366.

GEM L367 Digital Images in GIS (1)
 This laboratory provides the Geomatics/GIS student the opportunity to gain experience with digital image processing to use the vast inventory of digital images available for GIS projects.
 Prerequisites: GEM 3366/L366

GEM 3370 Geodesy and Geodetics (3)
 The study of the underlying theory necessary to understand the use of the Global Positioning System (GPS). Focuses on mathematical models of the earth, the earth's gravity field, and the use of near-earth satellites to measure the earth's surface. Important concepts developed in this course include coordinate systems, datums, map projections, coordinate transformations, and GPS network design.
 Prerequisites: MTH 1126, GEM 3379/L379, PHY 2253/L253

GEM L370 Geodesy and Geodetics Lab (1)
 Practice performing geodetic computations using the ellipsoid of revolution as a reference surface. A major laboratory component is static GPS network design and the use of dual-frequency survey-grade GPS equipment to extend survey control to the project site.
 Corequisite: GEM 3370

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- GEM 4409 Hydrology (3)
Explores several models used to compute runoff estimates based on particular rainfall events. Course topics are the hydrologic cycle, rainfall intensity, runoff models, hydrographs, storm sewer design, culvert design, open channel flows, watershed delineation, water retention and retention structures, and onsite sewage disposal systems. Prerequisite: GEM 1100 or the equivalent, MTH 1115. Corequisite: GEM L409. Recommended completion of PHY 2253 or the equivalent
- GEM L409 Hydrology Lab (1)
Compute peak runoff estimates, and open channel designs. The hydrology components of Microstation and AutoCAD are explored with respect to solving and presenting peak runoff solutions. A design project involving the use of large-scale topographic maps will be assigned. Prerequisite: GEM 4409
- GEM 4410 Introduction to Global Positions (GPS) (3)
Introduction to history and development of GPS and global navigation satellite systems (GNSS); GPS signals and observables; basic principles of GPS operations; GPS error analysis, GPS survey methods and procedures; and GPS data collection, processing; and GPS applications to geomatics. Prerequisite: GEM 3330/L330, 3370/L370. Corequisite: GEM L410
- GEM L410 Introduction to Global Positions Lab (1)
This laboratory course provides students practical exercises of GPS theories, instruments, field work, and data processing and analysis. Computational laboratory and field work will be combined throughout the course. Prerequisite: GEM 3330/L330, 3370/L370. Corequisite: GEM 4410
- GEM 4490 Geomatics Capstone (1)
This course ensures preparation for the national Fundamentals of Surveying exam and requires that students develop their own study habits and schedule their time to cover all aspects of th

GERMAN COURSES (GER)

HIS 3306	<p>African-American History (3)</p> <p>An introduction to the history of African Americans from the 17th century to the present, including slavery, Civil War and emancipation, legalized discrimination, and the struggles for equality in present day American society. Prerequisite: HIS 1111 and 1112 or permission of instructor</p>	HIS 3343	<p>rebirth of art and literature, the Protestant and Catholic reform movements and the role of kings and states. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>
HIS 3309	<p>England to 1688 (3)</p> <p>A survey of English history from the Anglo-Saxons to the Glorious Revolution, emphasizing the interaction of geographical, political, economic, and cultural forces which shaped England as a monarchy. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>	HIS 3344	<p>Age of Absolutism (3)</p> <p>Survey of political and religious controversies that shaped affairs in Europe during the 16th and 17th centuries, emphasizing the flowering of monarchy and aristocracy. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>
HIS 3310	<p>England since 1688 (3)</p> <p>The final evolution of the English political system from the reign of William and Mary to the contemporary era, including social and economic transformations, the British Empire, the two world wars, the welfare state, and current issues. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>	HIS 3352	<p>Age of Reason (3)</p> <p>Survey of European history in the 18th century, emphasizing the cataclysmic developments in scientific, political, humanitarian, and economic thought that prepared the way for the rise of democracy in both the old and the new world. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>
HIS 3315	<p>The Vietnam War (3)</p> <p>A study of the period 1946 to 1975 in Indochina with emphasis on the American involvement during and after the French colonial period, escalating involvement of the Kennedy and Johnson administrations, and Vietnamization and withdrawal under President Nixon. Prerequisites: HIS 1111 and 1112 or permission of instructor. Note: may be used for political science credit</p>	HIS 3356	<p>History of Africa (3)</p> <p>A survey of 19th and 20th 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</p>
HIS 3316	<p>History of Alabama (3)</p> <p>A study of the demographic, political, social, economic, and religious aspects of Alabama's history, emphasizing the role of the state within the nation. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>	HIS 3360	<p>History of the Middle East (3)</p> <p>Background information on Islam, the Ottoman Empire, and Western influence sets the scene for a detailed study of political, economic, and social developments since World War I. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>
HIS 3318	<p>History of American Women (3)</p> <p>An introduction to the history of women in America from the 17th century to the present, exploring the major economic, religious, social, and political ideas and developments which have shaped their status and role in American history. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>	HIS 3362	<p>Introduction to Archives: Theory and Issues (3)</p> <p>This course will introduce students to the history and social value of records and archives, to the theory underlying professional archival practice, and to the application of archival theories in the digital world.</p>
HIS 3330	<p>Historical Archeology (3)</p> <p>An examination of the historical research methods and archaeological techniques used to investigate and interpret archaeological sites dating from the prehistoric period.</p>	HIS 3375	<p>Archival Methods and Practices (3)</p> <p>This course will introduce students to the practical tasks performed by archivists in securing and preserving records, processing, arranging, describing, and providing access to them.</p>
HIS 3341	<p>Medieval Europe (3)</p> <p>Western Europe from the fall of Rome to the Renaissance, including religious and intellectual traditions and the revival of governmental institutions. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>		<p>Research and Methodology (3)</p> <p>A course designed to acquaint students with research methods and computer skills as related to the history profession. The principal requirement is the successful completion of a formal research paper in which students will demonstrate proficiency in research, writing, and basic computer skills. Note: It is strongly recommended that history majors complete this course during the first term of their junior year. Prerequisite: Nine semester hours of history, including one of the freshman/sophomore-level series. Note: Students must receive a grade of C or better for credit toward completion of degree requirements.</p>
HIS 3342	<p>Renaissance and Reformation (3)</p> <p>Historical review of the transitional centuries bridging the medieval and the modern eras, including the</p>		

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<p>HIS 4401 French Revolution and Napoleon (3) A study of the absolutist-aristocratic France challenged by democratic-egalitarian ideals and revolution, including the role of Napoleon as conqueror of Europe and as propagator and destroyer of the French Revolution. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>	<p>HIS 4414 Emergence of Modern America, 1877-1919 (3) Includes agricultural decline and crisis, industrialization and urbanization, Progressive reform era, World War I, and America as a world power. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>
<p>HIS 4402 Europe from 1815-1900 (3) A study of Europe from the Congress of Vienna to 1900, including political, social, and economic developments in various countries, the rise of nationalism and unification movements, and imperialism. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>	<p>HIS 4415 Contemporary America (3) Includes America in the Great Depression, World War II and the Cold War, Civil Rights Movement, Johnson's Great Society, and America as a superpower. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>
<p>HIS 4403 Contemporary Europe (3) Traces European history in the 20th century, including domestic developments, World War I, Great Depression, rise of totalitarianism, World War II, European integration, the Cold War, and the post-Cold War era. Prerequisites: HIS 1101 and 1102 or permission of instructor</p>	<p>HIS 4420 History of American Minorities (3) Study of selected ethnic, racial, cultural, social, and religious minorities, their treatment within and their contributions to American society. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>
<p>HIS 4405 Old South (3) An examination of the cultural, political, religious, and economic trends that shaped the colonial and antebellum South and the Civil War which ended that era. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>	<p>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. Note: May be used for political science credit.</p>
<p>HIS 4406 New South (3) An examination of the political, social, racial and religious trends and policies that defined the New South. Topics include Reconstruction, redemption, agrarian unrest, Jim Crow, industrialization, Progressive Movement, World War I, the Great Depression, World War II, and the Civil Rights Movement. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>	<p>HIS 4430 Civil Rights Movement (3) Study of the origins of the Civil Rights Movement in the late nineteenth a</p>
<p>HIS 4411 Colonial America (3) Study of the colonial period from European discovery to the end of the French and Indian War, with emphasis on the political, economic, and social developments that set the stage for the American Revolution. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>	<p>6.6(4112 or p)6.7(e)-2v</p>
<p>HIS 4412 The American Revolution and the New Nation, 1763-1815 (3) Ideas and institutions which led to American independence, the creation of the American union, and the development of a distinctive American culture in the Early National Era. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>	
<p>HIS 4413 Antebellum, Civil War and Reconstruction, 1815-1877 (3) Examines nationalism, Jacksonian democracy, territorial expansion, slavery and sectional strife, and the resulting Civil War and Reconstruction. Prerequisites: HIS 1111 and 1112 or permission of instructor</p>	

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	practice in writing effective advertisements. Prerequisites: JRN 2201, 2220 or special permission from the director of the School of Journalism		weekly one-hour discussion and evaluation. Prerequisite: JRN 2203
JRN 3326	Advising Student Publications (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.	JRN 4410	Advanced Radio Practicum (3-6) Emphasis on individualized work in radio news or production. Prerequisite: JRN 4403 or 4405
		JRN 4413	Television News Practicum (3-6) Supervised experience gathering, writing and performing for a daily television news broadcast. Prerequisite or corequisite: JRN 2203
JRN 3327	Sports Broadcasting (3) Advanced methods, techniques and performance styles for broadcast sports news and information. Prerequisite: JRN 2201	JRN 4415	Television Production Practicum (3-6) Supervised experience in technical television work. Includes in-studio and remote camera operation, lighting, video tape editing and directing. Two hours per day plus a weekly one-hour discussion and evaluation. Prerequisite: junior standing or above
JRN 3330	Journalism Practicum (1 to 3 credit hours) Supervised journalism-related experiences focusing on gathering information, writing, editing, photography, design, online journalism, electronic journalism, broadcast journalism, advertising and/or public relations.	JRN 4419	Advanced Public Relations Tactics (3) Practical experience in preparation of public relations messages for a client. Prerequisite: JRN 3321. Corequisite: JRN 4423
JRN 3350	Advertising Sales (3) Discussion of and practical experience in servicing accounts and selling advertisements. May require selling ads for the Tropicana. Prerequisite: JRN 2220	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) Editing and producing the editorial page, with extensive practice in writing the opinion column and editorial. Prerequisite: JRN 2201
JRN 3365	TV Studio Techniques and Producing (3) An introduction to the production elements, theories and procedures of producing news broadcasts for television. Lighting, set design, preparation, operation of equipment, graphics, editing, responsibilities of those members involved in the production, electronic news gathering (ENG), operation of remote equipment and interviewing are topics discussed in this class.	JRN 4423	Public Relations Campaigns (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. Corequisite: JRN 4419
JRN 4400	Special Topics in Journalism (1 to 3 credit hours) Lecture, discussion, and research course designed to acquaint students with special topics in the fields of broadcast and print journalism. May be taken for a maximum of six hours.	JRN 4425	Media Law (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 4401	Community Media Management (3) Discussion of special problems and management techniques of print, broadcast, cable and public relations organizations.	JRN 4427	Sports Reporting (3) Advanced methods, techniques, and writing styles for reporting sports news and information. Prerequisite: JRN 2201
JRN 4403	Radio News Practicum (3-6) Supervised experience gathering, writing and performing radio news broadcasts. Prerequisite or Corequisite: JRN 2203	JRN 4430	Processes and Effects of Mass Communication (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 4405	Radio Production Practicum (3-6) Supervised experience in radio studio work. Includes audio techniques for both public affairs and musical productions, tape editing, and use of automated programming. Two hours per day plus a		

JRN 4440	Advanced Technologies in Journalism (3) An introduction to using advanced technologies and on-line reporting techniques in journalism and public relations.	KHP 1107	Swimming (1) Physical education activity course.
		KHP 1108	Tennis (1) Physical education activity course.
JRN 4489	Internship (5) Full-time work experience as a regular staff member in a communication related position (for example, a print publication, electronic media, advertising office, public relations firm, etc.) Students 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. Students will also prepare written and oral reports. Prerequisites: Approval of the academic adviser and department chair, a minimum of 75 hours of course work, completion of a Permission to Register for an Internship Form, and successful completion of an internship workshop prior to registering for the internship	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.
JRN 4490	Internship/Field Experience (1 to 7 credit 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	KHP 1122	Water Aerobics (1) Physical education activity course.
		KHP 1123	Synchronized Swimming (1) Physical education activity course.
		KHP 1124	Beginning Yoga (1) Course will introduce students to yoga as a different type of exercise. Students will explore the opportunity for yoga to become a lifetime activity in order to promote health and wellness in their daily routines.
JRN 4491-92	Guided Independent Research (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.	KHP 1133	Square Dance (1) Physical education activity course.
		KHP 1134	Ballroom Dance (1) An introduction to social dancing with an emphasis on American ballroom dances (foxtrot, waltz, swing) and Latin ballroom dances (cha cha, mambo, tango). Equivalent to DAN 1134.
JRN 4493-94	Guided Independent Study (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.	KHP 1138	Clog Dance I (1) Physical education activity course.
JRN 4495	Communication Seminar (1) Study of issues related to ethics in communications, journalism, public relations, advertising and/or components of speech communication. Additionally, the students will design and execute a major field-related research project.	KHP 1139	Fitness for Life I (1) Physical education activity course.
		KHP 1141	Jogging (1) Physical education activity course.
KINESIOLOGY AND HEALTH PROMOTION COURSES (KHP)		KHP 1142	Weight Training (1) Physical education activity course.
KHP 1101	Badminton (1) Physical education activity course.	KHP 1144	Step Aerobics (1) Physical education activity course.
KHP 1104	Golf (1) Physical education activity course.	KHP 1146	Physical Defense for Women (1) Physical education activity course.

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- KHP 2200 Health Concepts (1)
A study of health concepts that characterizes a process in the life cycle that is typical of every individual.
- KHP 2201 Camping and Outdoor Education (2)
Camping, leadership and program planning.
- KHP 2202 First Aid and Safety and CPRO (2)
Community first aid and safety instruction and CPRO for the professional following American Red Cross techniques.
- KHP 2204 Intermediate Golf (1)
Physical education activity course.
- KHP 2208 Intermediate Tennis (1)
Physical education activity course.
- KHP 2212 First Aid and CPRO Recertification (1)
Community first aid and safety instruction and CPRO for recertification
Prerequisite: Proof of certification in American Red Cross Community

KHP 2282 Theory and Techniques of Coaching Basketball (2)
Offensive and defensive techniques, purchase and care of equipment, budgeting, squad organization, rules, scouting and team conditioning.

KHP 3330 Physical Skills Proficiency (2)
This course covers rules, regulations, terms, origin, development, safety, equipment and performance of skills of specified sport activities including archery, badminton, gymnastics, soccer and volleyball which are related to KHP 4485/4486.

KHP 3331 Physical Skills Proficiency II (2)
This course covers rules, regulations, terms, origin, development, safety, equipment, and performance of skills of specified sport activities including basketball, golf, swimming, track and field, and tennis which are related to KHP 4485/4486.

KHP 3340 Principles of Recreation (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)
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)
General anatomy, joint and muscle function, and analysis of body movement
Prerequisites: KHP 3360 or BIO 3347/L347 and BIO 3348/L348

KHP 3355 Introduction to Sport and Fitness Management (3)
This 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
Prerequisite: sophomore standing

KHP 3360 Physiological Principles of Body Systems (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/L100 and CHM 1142/L142; or SCI 2233/L233; or PHY 2252/L252

KHP 3361 Integrating HPER into the Curriculum (3)
Methods and materials for integrating physical education into the curriculum
Prerequisites: KHP 3360 or BIO 3347/L347 and BIO 3348/L348

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niques, 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)

This course is designed to serve as a mechanism for the introduction of new information and technology issues for the sport industry. This course will emphasize substantive

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pervised experienced in a related field. Prerequi-
sites: course must be taken semester prior to intern-
ship (KHP 4490) or permission of instructor

KOREAN COURSES (KOR)

- KOR 1101 Introductory Korean I (3)
 Introduction to the Korean Language.
- KOR 1102 Introductory Korean II (3)
 Introduction to the Korean Language. Prerequisite:
 KOR 1101 or permission of instructor

of effective leadership. Students will be expected to complete a significant number of selected readings and engage in detailed discussion as part of this class. May be repeated once for credit

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- Prerequisites: BIO 1101/L101, 2229/L229, CHM 1143/L143, BIO 4432/L432 or MB 4403
- 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.
- MB 4434 Marine Geology (4)
A study of the geology of the ocean basins, with special emphasis on the continental shelves, their sediments, and the sedimentary processes at work there. Prerequisites: BIO 1101/L101, 2229/L229, CHM 1143/L143, introductory geology and MTH 4423
- MB 4435 Coastal Geomorphology (2)
An introduction to coastal sediment processes and applied geomorphology with emphasis on waves, tides, and sediments. Prerequisites: BIO 1101/L101, 2229/L229, CHM 1143/L143
- MB 4437 Coastal Climatology (2)
Study of the controlling factors and features of the world's climates, with particular attention to coastal areas and application and interpretation of climate data. Prerequisites: BIO 1101/L101, 2229/L229, CHM 1143/L143
- MB 4460 Introduction to Neurobiology (4)
The study of the structure, development, physiology, and pharmacology of the nervous systems and sense organs. Prerequisites: BIO 4478/L478, PHY 2253/L253

MANAGEMENT COURSES (MGT)

- 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 3372 Hospitality Management (3)
A survey course providing an overview of the industry, its history, problems and general operating procedures. Prerequisite: MGT 3371
- 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, QM 3341
- MGT 3374 Hotel Management (3)
This course prepares students to manage basic hotel operations including hotel organization, rooms, housekeeping, engineering and security, food and beverage, marketing, and financial control. Prerequisite: MGT 3372

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MGT 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester)

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

MGT 4496 Selected Topics 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 nature and/or special interest. Prerequisite: MGT 3371

MARKETING COURSES (MKT)

MKT 3361 Principles of Marketing (3)

MKT 4491-92 Guided Independent Research (1 to 3 credit hours per course per semester)
Additional information is indexed under Independent Study and Research.

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ples of subordinate motivation and organizational change. Students will apply leadership and problem solving principles to a case study and or simulation. Corequisite: MS 4404a

- MSL 4402 Officership (3)
This course is designed to explore topics relevant to Second Lieutenants entering the U.S. Army and focuses on the legal aspects of decision making leadership, analyzing Army organization from the tactical to the strategic level, assessing administrative and logistical functions, performance of platoon leader actions, and examination of leader responsibilities that foster an ethical command climate. Corequisite: MS 4404b
- MSL 4404 Leadership Lab (1)
Leadership lab is required for all Army ROTC students. The student will receive training in troop-leading procedures, mission planning, squad tactics, land navigation, individual movement techniques, water survival and rappelling.
- MSL 4405 Leadership Lab (1)
Leadership lab is required for all Army ROTC students. The student will receive training in troop-leading procedures, mission planning, squad tactics, land navigation, individual movement techniques, water survival and rappelling.

MEDICAL TECHNOLOGY COURSES (MT)

(Offered in hospital internship only)

- MT 4400 Clinical Urinalysis (1)
The imparting of skills for performing and interpreting routine urinalyses as well as special urinalysis procedures.
- MT 4401 Clinical Urinalysis Lab (1)
This lab section includes specimen handling, procedure manual, audio-visual, quality control, record keeping, and reporting system.
- MT 4402 Clinical Microbiology (4)
This lecture course covers areas of bacteriology, mycology, and virology.
- MT 4403 Clinical Microbiology Lab (2)
This lab teaches identific

- MTH 1105 Intermediate Algebra (3)
 Topics include real and complex numbers; polynomials and factoring; rational exponents; roots and radicals; linear equations and inequalities; quadratic equations; and graphing.
 Prerequisite: placement or a grade of C or better in MTH 1100. Note: This course is for institutional credit only and will not be used in meeting degree requirements. This course will not substitute for any general studies requirement.
- MTH 1110 Finite Mathematics (3)
 Topics include a survey of logic, sets, counting, permutations, combinations, basic probability, an introduction to statistics, and matrices and their applications to Markov chains and decision theory.
 Prerequisite: appropriate score on mathematics placement test, advanced placement, or a grade of C or better in MTH 1105. Note: Credit will not count toward a major or minor in mathematics.
- MTH 1112 Pre-Calculus Algebra (3)
 Topics include the algebra of functions, including polynomial, rational, exponential, and logarithmic functions. The course also contains systems of equations and inequalities, linear and quadratic equations and inequalities, graphs of polynomials, and the binomial theorem.
 Prerequisite: appropriate score on mathematics placement test, advanced placement, or a grade of C or better in MTH 1105. Note: Credit will not count toward a major or minor in mathematics.
- MTH 1114 Pre-Calculus Trigonometry (3)
 This course covers trigonometric functions including definitions, identities, and trigonometric equations, applications as well as properties and graphs of trigonometric functions and their inverses. Also included are the law of sines, the law of cosines, and the area of a triangle.
 Prerequisite: appropriate score on mathematics placement test, advanced placement, or a grade of C or better in MTH 1105. Note: Credit will not count toward a major or minor in mathematics.

- MTH 4460 Topology (3)
An introduction to metric and topological spaces and associated topics, separation axioms, compactness, and connectedness. Prerequisites: MTH 2227, 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. Corequisite: 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 evaluation in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, teaching methods, selections organization and use of mathematics materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course. Prerequisite: admission to TEP
- MTH 4490 Senior Seminar (1 to 3 credit hours)
Individualized study of a topic in mathematics cul-

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	microphone techniques, utilize digital editing and plug-ins, and prepare a recording project portfolio. Prerequisite: MUI 3310	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.
MUI 4460	Senior Practicum (3) Culminating project and presentation in student's area of emphasis integrating internship, career placement and portfolio development. Prerequisite: approval of adviser/ coordinator	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
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.	MUS 1110-4428	Private Instruction (1 credit hour per semester, 1 lesson per week)
MUI 4499	Music Industry Internship (9) Placement in real-world work environment in the music industry. Supervised by a music industry faculty member. Prerequisite: MUS 4460	1110/2210/3310/4410	Violin
		1111/2211/3311/4411	Viola
		1112/2212/3312/4412	Cello
		1113/2213/3313/4413	String Bass
		1114/2214/3314/4414	Piano
		1115/2215/3315/4415	Organ
		1116/2216/3316/4416	Voice
		1117/2217/3317/4417	Clarinet
		1118/2218/3318/4418	Oboe
		1119/2219/3319/4419	Flute
		1120/2220/3320/4420	Bassoon
		1121/2221/3321/4421	Saxophone
		1122/2222/3322/4422	Trumpet
		1123/2223/3323/4423	Horn
		1124/2224/3324/4424	Trombone
		1125/2225/3325/4425	Euphonium
		1126/2226/3326/4426	Tuba
		1127/2227/3327/4427	Percussion
		1128/2228/3328/4428	Guitar
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) 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. Corequisites for music majors: MUS 1105, 1107		1000-level courses are for non-majors and music majors studying secondary instruments. Prospective music and music education majors will be auditioned by a music faculty member to determine readiness for study as a job. Students will study two semesters each at the 2000, 3000, and 4000 levels. Approval for advancement will be given at jury examinations by faculty in each area (keyboard, voice, brass, woodwinds, percussion).
MUS 1103	Music Theory II (3) Study of modulation, secondary dominants, seventh chord resolution, two- and three-part forms, and intermediate-level analysis. Prerequisite: MUS 1102. Corequisites for music majors: MUS 1106, 1108	MUS 1131	Music Appreciation (2) Orientation, vocal and instrumental media, forms, historical development and guided listening. Credit for this course does not apply toward any program in music.
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 1132	Honors Music Appreciation (2) Elements of music, composers, vocabulary for music, forms and music literature. Includes a writing project on a musical topic. Prerequisite: ACT score of 25 or permission of instructor
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 1181	Band (1-6) Fall; (1-3) Spring and Summer Marching Band (fall) and concert band (spring and summer). Open to all students by permission of director.

- MUS 1182 Choir (1-3)
Choral ensemble; open to all students by permission of director.
- MUS 1183 Collegiate Singers (1-3)
Choral group devoted to performance of choral masterworksNote: open to all students with permission of instructor
- MUS 1191 Musical Theatre (1-3)
Production of fully-staged works for musical theatre. Offers experiences on-stage, back-stage, and in the orchestra pit. Open to all students by permission of director.
- MUS 1192 Madrigal Singers (1-3)
Performance of choral chamber music in a variety of styles, including Renaissance, 20th Century, jazz and popPrerequisite: audition required
- MUS 2202 Music Theory III (3)

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MUS 3353	Class Percussion (1-2) Group instruction in playing and teaching the principal pitched and non-pitched percussion instruments.	MUS 4400-01-02 Selected Topics (1 to 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 3354	Class Strings (1-2) Group instruction in techniques of playing and teaching stringed instruments.	MUS 4403	Classroom Management for the Music Educator (3-4) The purpose of this course is to establish a founda-
MUS 3356	Class Voice (1-2) Introduction to the use of the singing voice for non-voice principals in music education.		
MUS 3358	Beginning Folk Guitar (1-2) Basic introduction to guitar chording and accompanying songs in the classroom or in informal settings.		
MUS 3361	Integrating Music into the Curriculum (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 3380	Travel Study in Music (3) Supervised study of music through travel abroad or within the interior of the United States May be repeated for credit Prerequisite: permission of instructor		
MUS 3382	Choral Techniques (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) 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		

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<p>NSG 1151 Hospital Measurements (1) A practical approach to using mathematical computations in health-related situations. Focuses on mathematics computations as applied in selected health care settings. Mastery of the use of different systems of measurement will be a priority. Includes an exam on computation dosages and solutions, requiring completion with 85% accuracy. Prerequisites: admission to the ASN Program, ENG 1101, MTH 1112, PSY 2200, BIO 3347/L347</p>	<p>NSG 2271 Psychosocial Nursing Concepts (2) Focuses on the role of the registered nurse in promoting the adaptation of individuals and families experiencing biopsychosocial stressors. Prerequisites: NSG 1131, 1135, 1151, 2213, BIO 3348/L348, PSY 2210, TROY 1101. Corequisites: NSG 2272</p>
<p>NSG 2202 Pharmacology (2) Focuses on the general classification of drugs, pharmacological actions, clinical usage, methods of administration, usual dosage, side effects, contraindications, toxic reactions, and related nursing implications. Prerequisites: NSG 1140, 1141, BIO 3372/L372</p>	<p>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 biopsychosocial stressors. Prerequisites: NSG 1131, 1135, 1151, 2213, BIO 3348/L348, PSY 2210, TROY 1101. Corequisites: NSG 2271</p>
<p>NSG 2213 Nutrition (2) Introduces the concept of nutrition and its importance to health throughout the life span. Focuses on the study of the nutrients, nutritional assessment, nutrient-drug interactions, and food safety. Considers dietary patterns of various cultural, ethnic and religious groups.</p>	<p>NSG 2280 Advanced Nursing Concepts (4) Provides advanced knowledge for care of individuals and families in adult developmental stages. Focuses on the role of the nurse in assisting the client to adapt to complex, multi-system stressors within the environment. Prerequisites: NSG 2202, 2255, 2256, 2265, 2266, 2282, 2283. Corequisite: NSG 2281</p>
<p>NSG 2255 Maternal-Infant Nursing (2) Focuses on the use of the nursing process in assisting the family during childbearing experiences. Explores adaptive strategies for individuals experiencing alteration in health states. Prerequisites: NSG 1140, 1141, 2271, 2272. BIO 3372/L372. Corequisite: NSG 2256</p>	<p>NSG 2281 Advanced Nursing Practicum (6-12) Provides opportunity to implement the nursing process to assist adult individuals and families with complex multi-system stressors. Emphasizes prevention and intervention in complex and life-threatening situations. Facilitates transition into the professional nursing role by examining legal, ethical, political, economic, and socio-cultural issues in nursing. Provides opportunity to refine nursing skills and develop more in-depth knowledge in a selected clinical area under the guidance of an approved professional nurse. Prerequisites: NSG 2202, 2255, 2256, 2265, 2266, 2282, 2283. Corequisite: NSG 2280</p>
<p>NSG 2256 Maternal-Infant Nursing Practicum (2-4) Focuses on the role of the registered nurse in the application of the nursing process to assist individuals and families to use adaptive strategies during childbearing. Utilizes antepartal, intrapartal, postpartal, neonatal, and community settings. Includes a basic IV therapy component. Prerequisites: NSG 1140, 1141, 2271, 2272, BIO 3372/L372. Corequisite: NSG 2255</p>	<p>NSG 2282 Gerontological Nursing Concepts (2) Focuses on the adaptive responses of older adults with multi-system stressors within the human environment interactive system. Emphasizes the interrelatedness of internal and external dimensions. Discusses the use of the nursing process to maintain or improve quality of life for older adults. Prerequisites: NSG 1140, 1141, 2271, 2272, BIO 3372/L372. Corequisite: NSG 2283</p>
<p>NSG 2265 Nursing of Children (2) Focuses on the use of the nursing process in assisting the family during childrearing experiences. Explores adaptive strategies for individuals experiencing alteration in growth and development and health states. Prerequisites: NSG 1140, 1141, 2271, 2272. BIO 3372/L372. Corequisite: NSG 2266</p>	<p>NSG 2283 Gerontological Nursing Practicum (2-4) Focuses on the role of the registered nurse in the application of the nursing process to assist older adults with multi-system stressors in a variety of settings. Prerequisites: NSG 1140, 1141, 2271, 2272, BIO 3372/L372. Corequisite: NSG 2282</p>
<p>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, 1141, 2271, 2272, BIO 3372/L372. Corequisite: NSG 2265</p>	<p>(BSN Program)</p>
<p>NSG 1101 Health Concepts (1) Provides opportunity for exploration of individual health values, beliefs, and behaviors. Examines impact of exercise, nutrition, and stress on health. Explores beliefs of time management, relaxation, and play in promoting and maintaining health. Open to all majors.</p>	

- NSG 1105 Medical Terminology (1)
Develops the use of Latin and Greek prefixes, root words, and suffixes to understand medical terminology. Open to all majors.
- NSG 1150 First Responder (1-2)
Provides the learner with cognitive and psychomotor skills to act in emergency situations. Topics include CPR, patient head-to-toe evaluation, bleeding and shock, internal and external body injuries, splinting, poisons, bites, burns, and drownings. May audit for recertification. Open to all majors.
- NSG 1160 Introduction to Technology in Nursing Education (1)
Provides a foundation for using computer technology in nursing education. Addresses digital communication, resources, and research used in learning. Includes communication through electronic mail and course discussions using the World Wide Web as an information tool, online scholarly research, and digital presentations. Open to all majors.
- NSG 2204 Nutrition (2)
A study of macro and micronutrients, their metabolism in the body, and their influence on health states of individuals from diverse cultural, ethnic and religious groups of all ages. Examines nutritional research and health policy. Compares nutritional adequacy to evidence-based national standards. Open to all majors.
- NSG 2205 Human Growth and Development (3)
Examines developmental theories and internal and external dimensions of growth and development. Emphasizes tasks, stressors, common health alterations, and anticipatory guidance specific to developmental stages throughout the life span. Open to all majors.
- NSG 2211 Human Nutrition (3)
Explores the relationship between nutrition and health. Emphasizes the roles of nutrients, their utilization in the human system and their contributions to the health of individuals of all ages. 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. Course focus is the application of technology skills in health science fields. Open to all majors. Prerequisite: sophomore standing
- NSG 2240 Spanish for Healthcare Providers (2)
Elementary-level instruction in Spanish language

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NSG 3306 Perspectives of Professional Nursing (2)
Explores the roles of the baccalaureate degree nurse. Presents the principal standards, and values implicit in the profession of nursing. Introduces the theories used in the definition of concepts of humanity, environment, health, and nursing. Introduces the development of key elements used in professional nursing practice: caring, evidence-based clinical decisions, communication, collaboration, cultural humility, ethical competence, research, and information technology. Explores the influence of internal and external dimensions on

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4413/4414, 4419 or admission to the RN-BSN/MSN
Clinical nursing sequence. Corequisite: NSG 4406

NSG 4406 Public Health Nursing Practicum (2-4)
Provides clinical learning opportunities for students to engage in public health nursing practice. Explores use of advocacy and application of environmental, global, cultural, political, and financial dimensions of public health nursing practice in health promotion and clinical prevention for individuals, families, communities and populations. Emphasizes clinical reasoning in the application of the nursing process for promotion of optimal public health. Prerequisites: NSG 4403/4404, 4413/4414, 4419 or admission to the RN-BSN/MSN clinical nursing sequence. Corequisite: NSG 4405

NSG 4407 Clinical Nutrition (1)
A study of clinical nutrition therapy for support of adaptive i

PERSIAN COURSES (PER)

- PER 1101 Introductory Persian (Farsi) I (3)
Introduction to the Modern Persian language.
- PER 1102 Introductory Persian (Farsi) II (3)
Introduction to the Modern Persian language.
Prerequisite: PER 1101 or permission of instructor
- PER 2201 Intermediate Persian (Farsi) I (3)
Progressive development of basic language skills in
Modern Persian. Prerequisite: PER 1102 or per-
mission of instructor
- PER 2202 Intermediate Persian (Farsi) II (3)
Progressive development of basic language skills in
Modern Persian. Prerequisite: PER 2201 or per-
mission of instructor

on the state, democratic theory, liberalism, conservatism, and feminism.

- POL 3364 State and Local Politics (3)
An investigation of political processes and organization at the state and local level in the United States.
- POL 4402 Political Geography (3)
An analysis of the reciprocal effects of geography and political organization on the behavior of states, including boundaries, national resources, spatial strategies, and maritime power.
- POL 4410 International Political Economy (3)
An examination of the relationships between international politics and economics; states and markets, trade, foreign investment, international monetary affairs, foreign aid, state development strategies, and globalization.
- POL 4415 International Conflict (3)
This course provides a detailed examination of patterns of international conflict and methods employed to manage them: bases, emergence,

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- POL 4467 Asian Politics (3)
An introduction to the social and political institutions of Contemporary Asia.
- POL 4470 European Politics (3)
An introduction to the social and political institutions of contemporary Europe.
- POL 4471 Intergovernmental Relations (3)
The administrative, fiscal, and legal factors that govern relations between the various government entities in the United States. The focus is on the political conflicts that occur and the strategies for resolution.
- POL 4472 Administrative Law (3)
This course examines the legal environment in which government agencies function, including the powers and procedures that control administrative discretion, rule-making, investigations, prosecuting, negotiating, and settling; constitutional law, statutory law, common law, and agency-made law; the liability of governments and their officers; and selected court cases and decisions.
- POL 4474 Terrorism and Political Violence (3)
This course is designed to introduce students to the origins and significance of contemporary political violence with an emphasis on the phenomenon of 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 the political relationships within the region and internationally
- POL 4490 Internship in Political Science (1 to 3 credit hours)
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 4491-92 Guided Independent Research (1 to 3 credit hours each)
Note: Additional information is indexed under Independent Study and Research.
- POL 4493-94 Guided Independent Study (1 to 3 credit hours each)
Note: Additional information is indexed under Independent Study and Research.
- 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.

PSY 3311 Research Methods (3)
An introduction to the design, analysis, and interpretation of behavioral research, including strategies for reviewing scientific literature and organizing a research report. Prerequisite: PSY 3301

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- 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 materi-

with a minimum overall GPA of 3.0. Guided independent research may be taken only in the applicant's major or minor field. 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."

PSY 4492 Guided Independent Research (1 to 3 credit hours)

This course is designed to provide supervised research in the area of psychology. Opportunities for undergraduate research will be approved with attention to critical evaluation of research techniques, methods, and procedures. Selection of the problem must be approved by the professor under whom the study is to be conducted and the 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 study is to be undertaken. Preparation of a scholarly paper and oral defense may be required. Prerequisite: Junior or senior standing with a minimum overall GPA of 3.0. Guided independent research may be taken only in the applicant's major or minor field. 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."

PSY 4493-94 Guided Independent Study (1 to 3 credit hours)

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 chair and the dean. A written request is to be submitted to the department chair 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."

QUANTITATIVE METHODS COURSES (QM)

QM 2241 Business Statistics I (3)

An introduction to descriptive and inferential statistical concepts and methods. Topics include grouping of data, measures of central tendency and dispersion, probability concepts and distributions, sampling, statistical estimation, and statistical hypothesis testing. Prerequisite: MTH 1112

QM 3341 Business Statistics II (3)

A continuation of basic business statistics. Topics include comparison involving means and proportions, ANOVA, simple linear regression and correlation, multiple linear regression, chi-squared applications, nonparametric methods, and simple decision analysis. Prerequisite: QM 2241

QM 3342 Introduction to Operations Research (3)

An introduction to quantitative techniques applicable to business and economics. Topics include queuing analysis, transportation programming, PERT/CPM, and simple linear regression. Prerequisite: QM 2241

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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."

RHB 3345

and the process of incrementalism in implementation is examined. Prerequisites: HS 2230 or permission of instructor

Foundations of Rehabilitation (3)
Review of historical, philosophical, and legislative development of the rehabilitation movement; focuses on current service delivery systems and trends. Prerequisite: HS 2230

RED 4493-94 Guided Independent Study (1 to 3 credit hours)

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 chair and the dean. A written request is to be submitted to the department chair 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."

RHB 3350

Individual Differences and the World of Work (3)
An orientation into the world of work along with the meaning and importance of work to the individual, family and community. Includes job search techniques, methods of doing job surveys and ways of classifying information. Prerequisite: HS 2230 or permission of instructor

RELIGION COURSE (REL)

RHB 3360

Vocational Assessment (3)
Processes, principles, and techniques used to diagnose vocational assets and liabilities of the individual. Emphasis upon the use of psychometric tests, work samples, and job samples. Prerequisite: HS 2230 or permission of instructor

REL 2280

World Religions (3)
Historical development and basic beliefs of the world's major religions.

REHABILITATION COURSES (RHB)

RHB 3365

Introduction to Visual Impairment (3)
This course will provide an understanding of the medical, psychological, social, educational, and vocational issues that professionals must understand in order to work effectively with persons who are visually impaired.

RHB 2280

Rehabilitation Research I (3)
Introduction to statistical analysis concepts and principles necessary for understanding research reports and for the interpretation of data. Use of microcomputer statistical programs in the analysis of univariate, bivariate and multivariate data including parametric and non-parametric analysis techniques. Topics include descriptive techniques, averages and measures of variation, tests of statistical significance, correlation and regression, and analysis of variance. Prerequisite: MTH 1110 or 1112 and IS 2241

RHB 3380

Medical and Vocational Aspects of Physical Disability (3) 6.6(H- TD -.001 Tc .0Exl.)5(t

RHB 2281

Rehabilitation Research II (3)
Introduction to research methodology and process with emphasis placed on the evaluation of practice. Understanding and using the journal research article as a tool for selecting appropriate intervention. Skills are built in using electronic data bases and information retrieval systems and integrated with writing skills necessary to critically evaluate the usefulness of research studies in practice application. Prerequisite: RHB 2280

RHB 3320

Human Behavior In the Social Environment II (3)
An examination of the social dynamics of discrimination and oppression and particularly, how discriminatory and oppressive environments have potential for negatively affecting biopsychosocial growth and development.

RHB 3340

Social Policy and Planning (3)
Exploration of the social policy formulation process and the building of analysis skills in the evaluation of social policy and programs. The impact of political, economic, and social forces is a focal point,

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	ogy, staffing, training, sales, handling claims, and other administrative functions. Prerequisite: RMI 3335 or permission of department chair	SCI 3335	Physical Geology (3) Constructive and destructive processes which alter the earth. Corequisite: SCI L335
RMI 4491-92	Guided Independent Research (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research. Note: This course may not be substituted for any required course	SCI L335	Physical Geology Lab (1-2) Laboratory studies of constructive and destructive processes which alter the earth. Prerequisite: SCI 3335
RMI 4493-94	Guided Independent Study (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research. Note: This course may not be substituted for any required course	SCI 3336	Principles of Astronomy (3) Basic facts and theories related to astronomical phenomena. Corequisite: SCI L336
		SCI L336	Observational Astronomy Lab (1) Star and constellation identification and observa-
RMI 4499	London Internship (3) The London internship provide students with first-hand exposure to the center of the excess and surplus lines market, Lloyds. See the RMI department for specific requirements.		

RUSSIAN COURSES (RUS)

RUS 1101	Introductory Russian I (3) Introduction to the Russian language.
RUS 1102	Introductory Russian II (3) Introduction to the Russian language. Prerequisite: RUS 1101 or permission of instructor
RUS 2201	Intermediate Russian I (3) Progressive development of basic language skills in Russian. Prerequisite: RUS 1102 or permission of instructor
RUS 2202	Intermediate Russian II (3) Progressive development of basic language skills in Russian. Prerequisite: RUS 2201 or permission of instructor

SCIENCE COURSES (SCI)

SCI 2233	Physical Science (3) Basic chemistry and physics for non-science majors. Corequisite: SCI L233. Note: Credit does not count toward a major in any science curriculum.
SCI L233	Physical Science Lab (1) Laboratory experiments in basic chemistry and physics. Corequisite: SCI 2233
SCI 2234	Earth and Space Science (3) Basic astronomy and geology for non-science majors. Corequisite: SCI L234. Note: Credit does not count toward any major in the sciences.
SCI L234	Earth and Space Science Lab (1) Laboratory experiments in basic astronomy and geology. Corequisite: SCI 2234

sional laboratory experience is included in this course. Prerequisite: admission to TEP

SCI 4491-92 Guided Independent Research (1 to 4 credit hours per course per semester)

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SOC 3302 Small Groups (3)

An analysis of theory and research relating to the structure, functions, and processes of small groups. The course will explore group formation, structure, cohesion, conformity, power, leadership, and communication. Prerequisite: SOC 2275

SOC 3310 Minorities in U.S. Social Structure (3)

An analysis of the role of racial and cultural minorities in American society. Examines contribu-

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: SOC 2275

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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

SPED 3362 Special Education Policies and Procedures
in Florida (3)

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- SPN 3350 Spanish Culture on Location I (3-TBA)
Local orientation followed by study in a Spanish-speaking environment. Prerequisite: Permission of instructor
- SPN 3351 Spanish Culture on Location II (3-TBA)
Local orientation followed by study in a Spanish-speaking environment. Prerequisite: Permission of instructor
- SPN 3370 Selected Topics in Spanish (3)
Selected topics generally not covered in other Spanish courses. May be repeated for credit. Prerequisite: SPN 2242 or permission of instructor
- SPN 4448 Spanish Literature I (3)
Selected authors, periods, or genres in the literature of Spain. Prerequisite: SPN 2242 or permission of instructor
- SPN 4449 Spanish Literature II (3)
Selected authors, periods, or genres in the literature of Spanish-America. Prerequisite: SPN 2242 or permission of instructor
- SPN 4451 Spanish Culture and Civilization I (3)
Geography, history, cultural achievements, institutions, and daily life of Spain. Prerequisite: SPN 2242 or permission of instructor
- SPN 4452 Spanish Culture and Civilization II (3)
Geography, history, cultural achievements, institutions, and daily life of Spanish-American cultures. Prerequisite: SPN 2242 or permission of instructor
- SPN 4491-92 Guided Independent Research (1 to 3 credit hours per course per semester)
Additional information is indexed under Independent Study and Research.
- SPN 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester)
Additional information is indexed under Independent Study and Research.

SOCIAL SCIENCE COURSES (SS)

- 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

variance. Prerequisite: MTH 1110 or 1112 and IS 2241

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interpersonal outcomes of higher education. Through the course, students will engage in a service learning project while studying and reflecting on readings and activities to promote critical thinking skills, civic engagement and student success. Prerequisite and/or corequisite: TROY 1101, Membership in First Year Studies Program Learning Community

TROY 3300 Career Preparation and Job Search Techniques (3)

The primary purpose of this course is to aid students in making a successful transition from college to career. It also serves to aid non-traditional students in career transition.