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**ACCOUNTING COURSES (ACT)**


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- ACT 2291 Principles of Accounting I (3)  
Modern financial accounting theory and practices applied to sole proprietorships, partnerships, and corporations.
- ACT 2292 Principles of Accounting II (3)  
Modern financial and managerial accounting theory and practices applied to an organization's liabilities, cash flows, planning, budgeting, and control.  
Prerequisite: ACT 2291.
- ACT 3355 Internal Auditing (3)  
Internal auditing theory as contained in official pronouncement (IIASB, COSO, COBIT, Sarbanes-Oxley). Emphasis will be placed on material required for the CPA exam as it relates to professional ethics, audit engagement procedures, internal control, audit sampling, evidence gathering and auditor's reports.  
Prerequisites: ACT 2292.
- ACT 3357 Financial Reporting & Analysis I (3)  
Study of financial accounting concepts and principles related to financial reporting emphasizing income measurement and accounting for assets. Accounting majors must complete this course with a grade of C or better.  
Prerequisites: ACT 2292.
- ACT 3358 Financial Reporting & Analysis II (3)  
Study of accounting concepts and principles related to financial reporting of long-term debt, owners' equity and other special items. Accounting majors

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	<p>individuals and business entities, with an emphasis on components of income exclusions, allowable expenses, losses and other distributions. Tax implications of property transactions to both individuals and business entities, and choice of business entity will be introduced. Accounting majors must complete this course with a grade of C or better.</p> <p>Prerequisites: ACT 2292.</p>		
ACT 4480	<p>Professional Development—Public Accounting (1)</p> <p>Examination of professional and pre-professional requirements for entry into the public accounting profession. Accounting majors must complete this course with a grade of C or better.</p> <p>Prerequisite: ACT 3391, ACT 3392, ACT 3394, ACT 3396, ACT 4494. Prerequisites or Co-requisites: ACT 3395, ACT 4491, ACT 4495, ACT 4497.</p>	ACT 4494	<p>Study and Research.” Consult Certified Public Accountant Examination requirements prior to enrolling in this course. Accounting majors must complete this course with a grade of C or better.</p> <p>Income Tax Accounting I (3)</p> <p>Analysis of the federal income tax laws and regulations for individual taxpayers. Primary emphasis is on the individual components of personal and business income and the allowable deductions. The taxation of gains and losses on property and capital-asset transactions will be introduced. Accounting majors must complete this course with a grade of C or better.</p> <p>Prerequisite: ACT 2292.</p>
ACT 4481	<p>Professional Development – Forensic Accounting (1)</p> <p>Analysis of current developments and requirements for entry into the forensic accounting profession. Accounting majors must complete this course with a grade of C or better.</p> <p>Prerequisites: ACT 3358, ACT 3394, ACT 3396, ACT 4451, LAW 4425, ACT 4450.</p> <p>Prerequisites or Co-requisites: ACT 4498.</p>	ACT 4495	<p>Income Tax Accounting II (3)</p> <p>Analysis of federal income tax laws and regulations for partnerships, corporations, estates and fiduciaries.</p>
ACT 4482	<p>Professional Development – Management Accounting (1)</p> <p>Analysis of current developments and requirements for entry into the management accounting profession. Accounting majors must complete this course with a grade of C or better.</p> <p>Prerequisites: ACT 3358, ACT 3355, ACT 3395, ACT 3396, ACT 4451, ACT 4450.</p> <p>Prerequisites or Co-requisites: ACT 4496.</p>		
ACT 4485	<p>Fraud Examination I (3)</p> <p>The study of legal issues related to fraud prevention, detection and investigation. Accounting majors must complete this course with a grade of C or better.</p> <p>Prerequisite: ACT 4450.</p>		
ACT 4489	<p>Honors Auditing (3)</p> <p>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. This course is designed for Sorrell Global Scholars honors students. Accounting majors must complete this course with a grade of C or better.</p> <p>Prerequisite: Sorrell Global Scholars student or permission of Associate Dean; ACT 3392.</p>		
ACT 4491	<p>Advanced Accounting (3)</p> <p>An analysis of the theory and applications of accounting for business combinations, partnerships, and foreign currency transactions and translations. Accounting majors must complete this course with a grade of C or better.</p> <p>Prerequisite: ACT 3392.</p>		
ACT 4492	<p>Guided Independent Research (1 to 3 credit hours per course per semester)</p> <p>Additional information is indexed under Independent Study and Research.</p> <p>Note: This course may not be substituted for any required course.</p>		
ACT 4493	<p>Guided Independent Study (1 to 3 credit hours per course per semester)</p> <p>Additional information is indexed under Independent Study and Research.</p> <p>Note: This course may not be substituted for any required course. Also index for “Independent</p>		

technologies to perform required career duties and succeed as professionals in the workforce. Technology enhances the learning of adults, improves their motivation, and engages them in various activities. It also increases accessibility to individualized learning, and improves communication with coworkers and supervisors. This course focuses on the ideas and skills to integrate technology efficiently into curriculum and its utilization for effective teaching.  
Prerequisite: ADE 3301

ADE 3310 Teaching Adult Learners (3)  
This course features practical strategies and instructional techniques for teaching adult learners. Topics include characteristics of adult learners, adult learning/teaching styles, overcoming resistance to learning, promoting self-learning in adults, and dealing with diversity in the adult learning environment.  
Prerequisite: ADE 3301

ADE 3320 Assessing Adult Learners (3)  
This course is designed to assist participants with the development of knowledge and skills that can be applied to successful student outcomes assessment. Specifically, this course is an introduction to various methods that measure students' knowledge and skills. Emphasis is placed on constructing and validating various types of measurement instruments and performance assessments including their validity and reliability.  
Prerequisite: ADE 3301

ADE 3346 Educational Psychology in Adult Learning (3)  
This course is a study of the distinctive characteristics of adult development and their interaction with the cognitive, social, and psychological characteristics of adult learning. Emphasis will be given to understanding the nature of adult learners and their learning processes, principles of motivation and effective facilitation geared toward adult learners, and social and cultural influences on adult learning.  
Prerequisite: ADE 3301

ADE 4400 Classroom Management in Adult Learning (3)  
This course will provide an introduction to managing various instructional environments including how to create a safe learning environment, design classroom and laboratory procedures, and develop an effective classroom management plan. Instruction also includes how to implement organizational systems to manage work-based learning experiences, student records, learning experiences, supplies, equipment, tools, finances, and facilities.  
Prerequisite: ADE 3301

ADE 4401 Problem Solving and Decision Making (3)  
This course explores the application of effective problem solving and decision making strategies in the workplace. It examines involvement of stakeholders in decision processes, models for decision making, decision trees, risk analysis, and issues associated with implementation of decisions.  
Prerequisite: ADE 3301

ADE 4410 Professional Education Communication (Student Counseling) (3)  
This course is designed to develop communication skills required for effective occupational educators working with adults in a variety of postsecondary, workforce development, and military education settings. The course focuses on information and the communication process. Emphasis will be placed on verbal, non-verbal, interpersonal, and written communication. Special attention will be given to working with diverse populations.  
Prerequisite: ADE 3301

ADE 4420 History and Development of the Workforce (3)

This course is a study of the origins of adult career education and training in the United States. Students will learn about the pioneers in this field who built the theoretical concepts over time. Those concepts are examined through the lenses of:

- x Time and changes in the workplace during the agrarian and craftsman period, early industrialization, the post industrialization period, to current service and technology industries;
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<p>ANT 3311 Physical Anthropology (3) An examination of human biological development from the beginning of mankind through the Pleistocene age using evidence from archaeology, paleontology, biology, genetics and osteology.</p>		<p>and qualitative anthropological research methods. This course incorporates anthropological examples and theory to assist each student in developing a research question and a general research design report. This course covers a wide variety of methodologies applicable to four subfields of anthropology (cultural, archaeological, linguistic, and biological) Prerequisite: ENG 1102 or ENG 1104, ANT 2200</p>
<p>ANT 3312 Field Techniques in Archaeology (3-6-9 hours) Instruction in survey and excavation methods and techniques used in the discipline of archaeology.</p>		
<p>ANT 3315 The Anthropology of Kinship and Social Structure (3-6) Students will be introduced to the basic concepts and major issues in kinship studies, including gender, marriage, social relationships, and descent from a cross-cultural perspective. The course will explore different theoretical approaches to understanding the importance of global kinship practices, variations in kinship practices and gender systems around the world, and the relevance of kinship systems today as new reproductive technologies challenge our traditional ideas on kinship.</p>	<p>ANT 3376 Anthropological Statistics (3) A detailed description of what anthropologists do with the information they gather. Inferential and descriptive statistics are discussed in terms of univariate and multivariate methods. Particular attention is paid to issues pertaining to anthropological data (e.g. small sample sizes, missing data, autocorrelation). This course also serves as an introduction to statistical software options frequently used in anthropology research. Prerequisites: STAT 2210 or equivalent, ANT 2200</p>	
<p>ANT 3320 Prehistory of North American Indians (3) An examination of the aboriginal cultures of North America prior to the period of European contact based upon archaeological evidence.</p>	<p>ANT 3380 Anthropology Study Abroad (1-3) Supervised investigation of relevant topics in Anthropology through travel study abroad or within the interior of the United States.</p>	
<p>ANT 3321 North American Indians Since Contact (3) An examination of aboriginal cultures of North America from the period of European exploration, colonization, and settlement to the present using archaeological, ethnographic, and ethnological studies.</p>	<p>ANT 4410 High Civilizations of the Old World (3) An anthropological examination of the sociocultural systems that formed the foundations of pre-industrial high civilizations of the Old World and a survey of past cultures that achieved this degree of development.</p>	
<p>ANT 3324 Food and Culture (3) This course will explore the historical foundations of food production. Students will critically examine the current system of food production, and specifically how differential production and access to food have created disparities in health and nutrition. The course will also include an exploration of the Food Justice movement and how it is working to restructure and transform our current system of production.</p>	<p>ANT 4411 High Civilizations of the New World (3) An anthropological examination of the socio-cultural 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.</p>	
<p>ANT 3328 Environmental Archaeology This course explores environments and the methods and evidence used to reconstruct them. Emphasis is placed on the integration of geological, botanical, zoological, and archaeological data used to reconstruct Quaternary climates and environments. A number of issues central to and addressed by environmental archaeologists using plant, animal, and mineral data sets and working within the larger discipline of archaeological anthropology are considered throughout the course.</p>	<p>ANT 4412 Advanced Laboratory Archaeology Techniques (3) This course involves specific archaeological training in a singular area of Archaeological practice. Training in specific areas will be limited to such areas: zooarchaeological analysis, paleoethnobotanical analysis, geo-spatial archaeological analysis, cultural resource management, ceramic or lithic analysis, ethnoarchaeology, experimental archaeology, archaeological synthesis, and curation. Prerequisite: ANT 4460</p>	
<p>ANT 3330 Historical Archaeology (3) An examination of the historical research methods and archaeological techniques used to investigate and interpret archaeological sites dating from the historic period.</p>	<p>ANT 4413 Anthropology of Death and Burial (3) The goal of this course is to provide an anthropological perspective on mortuary studies derived from a study of the death experience. A strong emphasis will be placed on the theoretical foundations of mortuary data drawn from cultural anthropology and ethnography.</p>	
<p>ANT 3333 Human Osteology (3) An intensive study of the human skeletal system covering the structure, function, growth, and development of human bone as well as methods for the identification and analysis of bone in archaeological and forensic contexts.</p>	<p>ANT 4415 Anthropological Perspectives on the Domestication of Plants and Animals (3) This course focuses on the consequential transition in the human past, specifically, that from hunting and gathering of wild plants and animal food</p>	
<p>ANT 3340 Language in Culture and Society (3) A sociological and anthropological examination of language from a descriptive, historical and social perspective.</p>		
<p>ANT 3360 Magic, Witchcraft and Religion (3) An anthropological examination of the role of religion and the supernatural among traditional peoples.</p>		
<p>ANT 3375 Research Methods in Anthropology (3) The purpose of this course is to provide a structured opportunity to review, learn and apply quantitative</p>		



## COURSE DESCRIPTIONS · 120

- ART 2201    Introductory Drawing (3-5)  
Introduction to drawing with emphasis on traditional rendering materials and techniques.
- ART 2202    2D Studio I (3-5)  
Fundamental concepts in printmaking. Basic techniques in producing black and white multiples in relief, intaglio, serigraphy and lithography.  
Prerequisites: ART 1145, ART 2201.
- ART 2204    3D Studio I (3-5)  
Fundamental concepts in pottery and ceramics. Basic techniques in production and free form ceramics to include introduction to hand-building, wheel throwing, and glazing/firing techniques.  
Prerequisites: ART 1150, ART2201.
- ART 2205    3D Studio II (3-5)  
Fundamental concepts in sculpture. Emphasis on traditional subtractive and additive techniques in a variety of media.  
Prerequisite: ART 1150 ART 2201.
- ART 2206    2D Studio II (3-5)  
Fundamental concepts in painting. Basic techniques in application using transparent and opaque painting media.  
Prerequisites: ART 1145, ART 2201.
- ART 2208    Digital Tools (3)  
This course examines literacy and application of art and design industry-based hardware and software.
- ART 2210    Introduction to Digital Drawing (3)  
A fusion of analog and digital drawing focusing on basic introductory concepts. Technique and best practices are emphasized.
- ART 2215    Art and Design Forum (2)  
An introductory learning community established at This

- ART 3324 Concept and Process (3)  
This course is an exploration in content development, publishing, research and design for print and digital media.  
Prerequisite: ART 3308 or permission of department chair.
- ART 3325 Typography (3)  
A study and application of history, design, letterforms, typeface hierarchy, and grids.
- ART 3326 Digital Illustration (3)  
Student will explore the concepts and techniques necessary to create illustrations for use in print, web, and multimedia applications. Various categories of illustration will be addressed (i.e. technical illustration, editorial illustration, charts, maps, icons, and others). Students will also learn of significant illustrators and their contributions to digital image making.  
Prerequisites: ART 1145, ART 2201, and ART 2230.
- ART 3328 Digital Photo Studio (3-5)  
Intermediate classroom environment based around the exploration and fundamentals of digital color photographic processes. Techniques explored are artistic aspiration, color printing, theoretical research and exploration, digital photography manipulation and editing, studio lighting, photographic history and contemporary topics.  
Prerequisite: ART 1145, 2201, 2210 or 2230.
- ART 3330 2D Studio III (3-5)  
Advanced concepts in two-dimensional media.

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- ART 4431 3D Studio IV (3-5)  
Content and issues in three-dimensional media.  
Advanced studio practices in ceramics with a focus  
on the development of personal artistic expression.  
May be repeated for credit up to six hours.  
Prerequisite: ART 2204.
- ART 4432 Women in the History of Art (3)  
This course examines the role of gender in the  
production and reception of works of art.  
Analyzing a canon of great women artists, how  
patriarchal systems have affected the way art  
history has been written and the impact of the  
feminist movement on artistic production.
- ART 4435 Collaborative Studio (3)  
An integrative art studio experience joining  
students from each concentration area. Thematic,  
supervised exploration of chosen medium. This  
course will facilitate the comprehensive assessment  
of student competencies in art portfolio review,  
core curriculum exam and/or the taking of a  
standardized art exam, a requirement of all art  
majors. Prerequisite: Must be taken upon  
completion of the twelve hours concentration or  
have approval of the department chair.  
May be repeated for credit up to six hours.
- ART 4450 User Experience Design (3)  
A continuing study of "Design for the Internet".  
Through leveraging new trends and technologies



Prerequisite: AS L113 (Only required for those students pursuing a commission in the Air/Space Force).  
 Co-requisite: AS 2212 (Only required for those students pursuing a commission in the Air/Space Force).

- AS 2213      Team and Leadership Fundamentals II (1)  
 Is the second of two courses designed to provide a fundamental understanding of both leadership and team building. The lessons and course flow are designed to prepare students for field training and leadership positions in the detachment.  
 Prerequisite: AS 2212 (Only required for those students pursuing a commission in the Air/Space Force).  
 Co-requisite: AS L213 (Only required for those students pursuing a commission in the Air/Space Force).
- AS L213      Leadership Laboratory (LLAB) II (1)  
 Is a dynamic and integrated grouping of leadership developmental activities designed to meet the needs and expectations of prospective Department of Air Force second lieutenants and complement the AFROTC academic program. It is student planned, organized, and executed practicum conducted under the supervision of the Detachment Commander and Operations Flight Commander.  
 Prerequisite: AS L212 (Only required for those students pursuing a commission in the Air/Space Force).  
 Co-requisite: AS 2213 (Only required for those students pursuing a commission in the Air/Space Force).
- AS 3312      Leading People and Effective Communication I (3)  
 Is the first of two courses designed to utilize student's field training experience to take a more in-depth look at leadership. Special emphasis is placed on enhancing communication skills, and why that is important as a leader. Students have an opportunity to try out these leadership and management techniques in a supervised

Force second lieutenants and complement the AFROTC academic program. It is student planned, organized, and executed practicum conducted under the supervision of the Detachment Commander and Operations Flight Commander.  
 Prerequisites: AS L412 (Only required for those students pursuing a commission in the Air/Space Force).  
 Co-requisite: AS 4413 (Only required for those students pursuing a commission in the Air/Space Force).

ASL 2250

Prerequisite: ASL 2241 with a grade of "C" or better or departmental permission based on approved fluency assessment.

Advanced American Sign Language (3)  
 This course provides students with opportunities to expand expressive and receptive use of ASL, including a variety of special topics at an advanced level. Special emphasis is on increasing spatial use, ASL fluency and nonmanual behaviors. Students are given opportunities to increase expressive and receptive skills through activities and class discussions, including a variety of special topics at an advanced level. Special emphasis is on understanding the importance of spatialization, nonmanual grammar and morphology, and discourse features of ASL such as register and academic language use.

Prerequisites: Sign Language Proficiency Interview rating of Intermediate Plus, or ASL 2242 with a grade of C or better or permission of ITP Academic Advisor.

**AMERICAN SIGN LANGUAGE COURSES (ASL)**

ASL 1141 American Sign Language I (3)  
 Initial course in the four-course sign language developmental sequence which exposes students to American Sign Language at a Survival Level and will increase their knowledge of Deaf Culture. The course is designed for students who have had no previous knowledge of sign language.

ASL 2252

American Sign Language Fingerspelling (3)  
 This course is taught using American Sign Language. The course will introduce the students to the American manual alphabet of fingerspelling and its use within American Sign Language. The students will be given opportunities to demonstrate increased ability to accurately produce and comprehend ASL number systems and fingerspelling uses. Extensive drills and practice in both receptive and expressive use will be implemented.

Prerequisites: Sign Language Proficiency Interview rating of Intermediate Plus, or ASL 2242 with a grade of C or better or permission of ITP Academic Advisor.

ASL 1142 American Sign Language II (3)  
 The second course in the ASL sequence in which students continue to develop ASL proficiencies in lexicon, sign production, use of sentence types, and grammatical features such as use of classifiers, use of space to compare and contract, mouth morphemes, and locatives. Outside interaction with the deaf community is required.  
 Prerequisite: ASL 1141 with a grade of "C" or better or departmental permission based on approved fluency assessment.

ASL 1160 Visual/Gestural Communication (2)  
 An overview of visual and gestural communication working toward the goal of being able to express and perceive non-linguistic information about everyday objects, family structure, employment and more complex concepts such as rights and responsibilities.  
 Prerequisites: ASL 1141 with a grade of "C" or better.

ASL 3310

Deaf Culture and Diverse Populations  
 An exploration of linguistic, social, and ethnic factors that influence attitudes and beliefs among various segments of both deaf and non-deaf communities. Attention will be paid to "deaf plus" populations that simultaneously identify as both deaf and some other socio-cultural identity. Geographical, generational, ethnic, and gender differences are explored.  
 Prerequisites: ITP 2200 and ASL 2242 with grades of "C" or better

ASL 1170 ASL Semantics and Structure (2)  
 An advanced exploration of American Sign Language morphology, semantics and vocabulary expansion. Students also explore various syntactic structures in ASL.  
 Prerequisites: ASL 1141 with a grade of "C" or better.

ASL 2230 ASL Classifiers and Depiction (2)  
 This course provides the expand practice using the complex ASL morphology known as Classifiers, which are commonly used for descriptions of settings, participants and actions  
 Prerequisite: ASL 2241 with a grade of "C" or better

ASL 2241 American Sign Language III (3)  
 This course builds on skills and knowledge acquired in ASL I and II and focuses on building narrative skills. Students move from an informal to more formal style of signing. Interacting with the deaf community is a required activity. Students should be able to demonstrate intermediate to intermediate plus level conversational skills.  
 Prerequisite: ASL 1142 with a grade of "C" or departmental permission based on approved fluency assessment.

ASL 2242 American Sign Language IV (3)  
 This course builds on the previous ASL courses by increasing expressive and receptive skills with exposure to a wide variety of signing styles. Students will begin text analysis, be introduced to deaf literature, story-telling and signed poetry.

**BIOLOGY COURSES (BIO)**

BIO 1100 Principles of Biology (3)  
 Biological principles including the evolution of life, cell structure and function, human biology, cell reproduction, heredity, and ecology. Credit for this non-majors course cannot be applied toward any curriculum in biology.  
 Co-requisite: BIO L100.

BIO L100 Principles of Biology Lab (1-2)  
 Labs include coverage of scientific methods, measurements, microscopy, cell structure, human biology, cell reproduction, heredity, and ecology. Credit for this non-majors course cannot be applied toward any curriculum in biology.  
 Co-requisite: BIO 1100.

BIO 1101 Organismal Biology (3)  
 Biological concepts and processes of protists, fungi, plants, and animals.  
 Prerequisites: BIO 1100/L100.  
 Co-requisite: 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.  
 Co-requisite: BIO 1101.

BIO 1120 Survey of Environmental Sciences (3)  
This course is an overview of the Earth's abiotic and biotic systems with an emphasis on how human

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instrumentation and lab techniques. Labs will include the investigation of cell anatomy/function, genetics and molecular biology  
Prerequisites: BIO 22200

- 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 1100/100, BIO 2220/ L220, CHM 1142/L142.  
Co-requisite: BIO L347.
- 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, BIO 2220/L220, CHM 1142/L142.  
Co-requisite: BIO 3347.
- BIO 3348 Human Anatomy and Physiology II (3)  
The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems of humans.  
Prerequisites: a grade of C or better in BIO 3347/ L347.  
Co-requisite: BIO L348.
- BIO L348 Human Anatomy and Physiology II Lab (1-3)  
The endocrine, cardiovascular, lymphatic, respiratory, digestive, urinary, and reproductive systems of humans.  
Prerequisites: a grade of C or better in BIO 3347/L347.  
Co-requisite: BIO 3348.
- 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, BIO 2220/L220 and CHM 1142/L142 .  
Co-requisite: BIO L372.
- BIO L372 Microbiology Lab (1-3)  
Fundamentals of microscopy, sterile techniques, staining procedures, isolation techniques, identification of unknowns, and biochemical tests.  
Prerequisites: BIO 1100/L100, BIO 2220/L220, CHM 1142/L142.  
Co-requisite: BIO 3372.
- BIO 3382 Immunology (3)  
The cellular and humoral system involved in the host response and immunity of organisms to foreign substances. Mechanisms of humoral immunity, cellular immunity, and hypersensitivities.  
Prerequisites: BIO 3372/L372, CHM 3342/342.  
Co-requisite: BIO L382.

- Prerequisites: BIO 1101/L101, CHM 1143/L143.
- BIO 4421 Population Ecology (3)  
 Animal and plant populations, food supply, competition, disease, fecundity, distribution, and other environmental factors. Management of endangered species and protected ecosystems are included.  
 Prerequisites: BIO 229/L229, CHM 1143/L143, STAT 2210.  
 Co-requisite: BIO L421.
- BIO L421 Population Ecology Lab (1-3)  
 Field exercises in identifying ecological problems, formulating and testing hypotheses, and evaluating data using standard statistical methods.  
 Prerequisites: BIO 229/L229, CHM 1143/L143, STAT 2210.  
 Co-requisite: BIO 4421.
- BIO 4423 Neurobiology (4)  
 This undergraduate course is a comprehensive study of the biology of the human nervous system. This course introduces the anatomy and physiology of the central and peripheral divisions of the nervous system. Topics include: neuronal function, synaptic transmission, sensory processing, movement, and clinical disorders of the nervous system.  
 Prerequisites: BIO 348/L348, BIO 3372/L372

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- BIO 4465 Occupational Safety and Health (3)  
Prerequisites: BIO 2229 and BIO L229  
A study of practical information occupational safety and health technology, management, and regulatory compliance issues and covering crucial topics like an introduction to industrial hygiene; organizing, directing, and evaluating occupational safety programs; and safety-related laws, regulations, and recordkeeping.  
Prerequisites: BIO 1100 and SCI 2233.
- BIO 4471 Parasitology (3)  
Taxonomy, structure, life histories, distribution, pathogenesis, and control of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance.  
Prerequisites: Any 3000-level biology lecture and lab.  
Co-requisite: BIO L471.
- 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.  
Co-requisite: BIO 4471.
- 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.  
Co-requisite: 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 4479 Environmental Assessment (3)

	Prerequisites: Approval of the student's academic adviser and department chair. Internship may only be taken for a maximum of six (6) semester hours.	BUS 3382	Prerequisite: BUS 2220
BIO 4491-92	Guided Independent Research (1 to 3 ) credit hours per course per semester) Additional information is indexed under Independent Study and Research.		Business Communication (3) Analysis and composition of business and personal communications including mechanics and content of letters and memoranda. Prerequisite: ENG 1102 or 1104 and Lower-Level Business Core Classes.
BIO 4493-94	Guided Independent Study (1 to 3 credit hours per course per semester) Additional information is indexed under Independent Study and Research.	BUS 4425	Special Topics in Business (3) Special topics in areas offered by the Sorrell College of Business. Prior credit and topic approval by the Associate Dean of Sorrell College of Business required. Prerequisite: Lower-level core.
<b>BUSINESS COURSES (BUS)</b>			
BUS 1101	Introduction to Business (3) Topics covered include management, the free enterprise system, accounting, finance, marketing, economics, international business and other business concepts and terminology. This course may not be taken for credit by business majors.	BUS 4450	Global Leadership Experience (3) Global Leadership Experience is a course developed to help improve the understanding of global citizenship and provide an opportunity to use leadership skills to create a transformative experience for superior students. This class allows students to interact with and learn about new cultures. A ten-day trip which is the integral experiential learning part of this class. Prerequisite: Lower level core, junior standing, completion of at least 12 hours of the business core.
BUS 1110	Orientation to Sorrell College of Business (1) This course introduces students to the Sorrell College of Business by providing overviews of its degree programs, the GKS program, technology utilized in the College of Business, and other resources to ensure success throughout a student's time in the college.	BUS 4451	Honors Global Leadership Experience (3) Global Leadership Experience is a course developed to help improve the understanding of global citizenship and provide an opportunity to use leadership skills to create a transformative experience for superior students. This class allows students to interact with and learn about new cultures. A ten-day trip which is the integral experiential learning part of this class. Prerequisite: Lower level core, junior standing, completion of at least 12 hours of the business core.
BUS 1120	The Global Challenge (3) The Global Challenge will help prepare superior students for thinking globally. This course is as much about how to study and think about global problems and relationships as it is a course about specific global issues. Superior Students will be required to participate in a service learning project during the semester. There will be several options available to students to travel or work locally on international projects.	BUS 4474	Business and Society (3) This course focuses on the interrelationships between business organizations and the social, economic, political and cultural environments in which business organizations function, both nationally and globally. Among other topics, the course will address business ethics, organizational culture and values, social responsibility, and relationships with government.
BUS 1121	Honors the Global Challenge (3) The Global Challenge will help prepare superior students for thinking globally. This course is as much about how to study and think about global problems and relationships as it is a course about specific global issues. Superior Students will be required to participate in a service learning project during the semester. There will be several options available to students to travel or work locally on international projects.		Business and Society (3) [TJ /TT 1 4-5.9533 -1.38] This course focuses on the interrelationships between business organizations and the social, economic, political and cultural environments in which business organizations function, both nationally and globally. Among other topics, the course will address business ethics, organizational culture and values, social responsibility, and relationships with government.
BUS 2220	Business Writing (1) Analysis and composition of business and personal communications including mechanics and content of letters and memoranda. In this course, students will learn techniques for clarifying purpose, understanding readers, and organizing ideas. Prerequisites: ENG 1102 or 1104 and BUS 1110		
BUS 3310	Intermediate Excel (1) A computer application course in which business students use common business spreadsheet software to design and implement solutions to common business problems and issues. Prerequisite: Lower-level core		
BUS 3330	Professional Development (1) This course is designed to provide practical career development skills, build meaningful relationships and provide the student with instruction on general principles of oral communication in classroom and other professional situations, organization of information, and different types of oral presentations. Students will learn how to brand themselves using social media; acquire communication, social influence, and genuine networking skills; and develop an understanding of how to succeed in any workplace.		





Prerequisites: CHM 3342/L342.  
Co-requisite: CHM L343.

evaluation in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, teaching methods, selections organization and use of chemistry/science materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course.

Prerequisite: admission to TEP.

- CHM 4490 Internship in Chemistry (1-3) CJ 3308  
Supervised work experience in the biotechnology industry, governmental agency, business, or other working environment in which a student will learn and apply pertinent professional skills.
- CHM 4491-92 Guided Independent Research (1 to 3 credit hours per course per semester) CJ 3309  
Additional information is listed under Independent Study and Research in the section on Academic Regulations.
- CHM 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester) CJ 3310  
See index for "Independent Study and Research."
- CHM 4499 Senior Seminar (1) CJ 3325  
Principles of preparing and presenting an oral presentation on a selected chemical topic in the current literature.

continuity of government, and the private sector during incidents is also examined. Case studies, exercises, and discussions will be used to encourage critical review of the philosophy and principles of crisis management. This course addresses development of risk matrices, identification of threat and risk, crisis theory, stress management and the probability of crisis event occurrence.

- Foundations of Intelligence (3)  
An intellectual foundation for the study of intelligence, both as it has been practiced through history and as it is currently practiced by different nations and other entities today.
- Foundations of Home Security (3)  
An examination of the political and social complexities and dilemmas associated with state and local law enforcement and federal agencies roles in the defense of our nation subsequent to Sept. 11, 2001.
- Psychology for Criminal Justice Officials (3)  
Behavior of subjects and police officers in normal and unusual conditions, arrest, interrogation, detention, incarceration, protest, demonstrations, riots, public calamities, reactions of special interest groups, minorities, and specialized tests.
- Juvenile Justice (3)  
Provides a basic overview of the American juvenile justice system, beginning with the development of the juvenile court and addressing the jurisdiction, role, responsibilities, administration, and organization of the juvenile justice system. Also examined are the interfaces between police, schools, and the court, the i

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### CRIMINAL JUSTICE COURSES (CJ)

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Note: CJ 1101 Introduction of Criminal Justice and Criminology, is a prerequisite for all 3000 and 4000 level Criminal Justice courses

- CJ 1101 Introduction of Criminal Justice and Criminology (3)  
Agencies and processes involved in the administration of criminal justice.
- CJ 2221 Survey of Law Enforcement (3)  
A survey of policing, covering developmental history, the system of law enforcement organizations in the U.S., personnel administration, police roles and behavior, operations, and major issues such as discretion, civil liability, risk, and excessive force.
- CJ 2231 Survey of Corrections (3)  
Philosophy, theory, and practices involved in the treatment of convicted law violators, the examination, and the appraisal of the effects of correctional treatment upon post-correctional behavior.
- CJ 2241 Survey of Law and Criminal Procedure (3)  
An examination of the American legal system with emphasis on the analysis and processing of criminal offenses, including an examination of constitutional criminal procedure concerning arrest, pre-trial and trial processes.
- CJ 3302 Criminal Justice Administration (3)  
A survey of public administration as it applies to criminal justice organizations. The major dimensions of criminal justice organizations examined include organizational theory, organizational design, leadership and decision making, interpersonal and organizational communication, human resource management, legal aspects of administration, financial management, and organizational change.
- CJ 3305 Crisis Management (3)  
This course provides an overview of methods used to identify, plan for, mitigate, respond, and recover from a variety of events. The structure of the federal and state levels of crisis management and functions are considered along with the emergency support functions relied upon. Emphasis is placed on the roles and responsibilities of leadership during a crisis along with the framework of national, regional, and local response. The ability to understand and evaluate the phases of a crisis,

comprehension, the student should be able to analyze and apply lessons learned from that historical context to current situations in the United States Criminal Justice System.

- CJ 3375      Research Methods (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, ENG 1102 or 1104
- CJ 3376      Criminal Justice Statistics (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 3380      Digital Forensics I (3)  
Basic course designed to introduce the students to



CLA 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester)  
Additional information is indexed under Independent Study and Research.

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### COMMUNICATION COURSES (COM)

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COM 1101 Introduction to Communication (3)  
This course surveys the historical and cultural impact of human and mass communication including newspapers, magazines, radio, television, sound recordings, motion pictures, and the internet. It features the inventions, innovators, and technology that have driven mass communication development since the introduction of the printing press. It also discusses social effects and ethical concerns of communication.





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and real-world application development. This course involves hands-on projects.

Prerequisite: CS 3323 or 3330.

Students majoring in Applied Computer Science or in the Computer Science Program may not apply this course to the Cyber Security minor or certificate.

CS 4447

Systems Analysis and Design (3)

Study of the analysis of computer-based information systems. Emphasis is placed on analysis, specifications development, design, and development of information systems, including the software and databases that support the business needs of organizations. Both data-oriented and process-oriented design methods are covered. Topics include the systems analyst, the systems development life cycle



swing) and Latin ballroom dances (cha cha, mambo, tango). Equivalent to KHP 1134.



DAN 4412 Contemporary Technique IV (2)  
For the Dance major: Study of pre-professional modern dance, including dynamic alignment, body/mind connection, and increased vocabulary with

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	partnerships with children's families and communities. Knowledge, understanding, and valuing the importance and complex characteristic of children's families and communities will be used to create respectful, reciprocal relationships that support and empower families, and involve families in their children's development and learning. A minimum of 15 hours of clinical field experience will be required. Prerequisite: Admission to TEP.	ECO 2252	Principles of Microeconomics (3) Microeconomic theories of value, production, distribution of income, and basic international economic analysis.
		ECO 2253	Honors Principles of Macroeconomics (3) Macroeconomics theory of the national economy with emphasis on income, employment, banking, and public policy for the superior student. Prerequisites: SCOB Honors Student/permission of the Associate Dean
ECE 4401	Integrated Program (3) This course is designed to prepare early childhood majors to use their knowledge of academic disciplines to design, implement and evaluate experiences that promote positive development and learning for each and every young child. The essential concepts, inquiry tools, and structure of content areas, including academic subjects, and resources to deepen their understanding will be explored. A minimum of 15 hours clinical field experience is required. Prerequisite: Admission to TEP.	ECO 2254	Honors Principles of Microeconomics (3) Microeconomics theories of value, production, distribution of income, and basic international economic analysis for the superior student. Prerequisites: SCOB Honors Student/permission of the Associate Dean.
ECE 4454	Internship Seminar for Early Childhood Education (3) This course provides seniors an opportunity during internship to examine broad educational issues and concerns, topics on the state and local levels and those of personal interest. The scope of the course ranges from juvenile to classroom management professionalism, professional development for teachers and other course topics. Prerequisite: admission to TEP; Co-requisite: ECE Internship.	ECO 3351	Honors Intermediate Macroeconomics (3) Study of the variables affecting employment, income, and prices. Monetary theory and theories of fluctuation are reviewed. Policies dealing with economic stabilization are examined. This course is designed for Sorrell Global Scholars honors students. Prerequisite: Sorrell Global Scholars student or permission of Associate Dean; ECO 2251 or ECO 2253.
ECE 4474	Internship in Early Childhood Education (9) The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. Prerequisite: admission to TEP. Co-requisite: ECE 4454.	ECO 3351	Intermediate Macroeconomics (3) Study of the variables affecting employment, income, and prices. Monetary theory and theories of fluctuation are reviewed. Policies dealing with economic stabilization are examined. Prerequisite: ECO 2251.
		ECO 3352	Intermediate Microeconomics (3) Study of price and distribution theory as it relates to households, firms, and industries. Theories of factor prices and general equilibrium are also examined. Prerequisite: ECO 2252.
		ECO 3353	Money and Banking (3) Principles of money, credit, and banking including monetary systems, theories, and commercial banking operations related to the Federal Reserve System. Prerequisite: ECO 2251 and ECO 2252.
		ECO 3354	Honors Intermediate Microeconomics (3) Study of price and distribution theory as it relates to households, firms, and industries. Theories of factor prices and general equilibrium are also examined. Prerequisite: Sorrell Global Scholars student or permission of Associate Dean; ECO 2252 or ECO 2254.

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**INTERNATIONAL ECONOMIC DEVELOPMENT COURSES (ECD)**

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ECD 3362	Applied Spatial Analysis for Business (3) This introductory course prepares students to become decision makers able to analyze business data, both internal and external, from a spatial perspective utilizing geographic information systems software.	ECO 3355	Labor Economics (3) Employment, unionism, labor-management relations and human capital. Prerequisite: ECO 2252.
		ECO 3360	Entrepreneurial Economics (3) This course presents a wide-ranging overview of the place of entrepreneurship in economic theory, with a special focus on applications to institutions, organizations, strategy, economic development, and related fields. An emphasis is placed on historical pieces on the economics of entrepreneurship as well as modern applications will be studied. Prerequisites: ECO 2251, ECO 2252.

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**ECONOMIC COURSES (ECO)**

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ECO 1150	Survey of Economics (3) This course is a study of commerce and economics and their impact on society, technology, and business. This course will cover basic commerce and economics terminology and concepts important to managers.	ECO 3361	Sports Economics (3) Sports Economics introduces essential core economic concepts and develops them with examples and applications from the sports industry. The sections are devoted to illustrating prominent areas of economics: industrial organization, public finance, labor economics and econometrics. Prerequisites: ECO 2251, 2252.
ECO 2251	Principles of Macroeconomics (3) Macroeconomic theory of the national economy with emphasis on income, employment, banking, and public policy.		



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EDU 2230 Fundamentals of Teaching (3)  
The course is designed for students who are interested in pursuing careers in education. It will include in-depth coverage of significant components of the teaching profession, to include lesson development and planning, classroom

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."

- 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."

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## ELECTRONIC ENGINEERING TECHNOLOGY (EET)

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- EET 2220 Electrical Circuits I (3)  
This course primarily deals in providing a thorough understanding of the fundamental concepts of DC (Direct Current) circuits such as current, voltage, resistance, Ohm's Law, Power and Energy, series and parallel circuits, methods of circuit analysis and network theorems. Basics in magnetism and electromagnetism is also covered. Also, a circuit simulation tool is introduced and used to build and test DC circuits.  
Co-requisite: EET L220
- EET L220 Electrical Circuits I Lab (1)  
This course acquaints the concepts of the topics related to DC circuits learned in lecture through hands-on experiments and simulations.  
Co-requisite: EET 2220
- EET 2221 Electrical Circuits II (3)  
This course is a continuation of EET 2220. This course primarily deals with introduction to AC (Alternating Current), the laws and concepts which describe the behavior of AC circuits. Topics related to the introduction to capacitors, inductors followed by their behavior in RL, RC and RLC circuits.  
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	circuits, interrupts, microcontroller peripherals, microcontroller application development tools and platforms. Prerequisites: EET 3315, EET L315. Co-requisites: EET L420.	EET L444	Optical Electronics I CAD Lab (1) This course acquaints the theory and concepts learned in lecture through the hands-on computer aided design and simulation experiments. Co-requisites: EET 4444
EET L420	Fundamentals of Microcontrollers Lab (1) This course is focused on design, implementation and debugging of microcontroller based systems. Students will also learn about timers, ADC, wave generators, RC measurement etc. The course also has a project where students are expected to build and implement a microcontroller. Co-requisite: EET 4420.	EET 4445	Optical Electronics II (3) This course is the second in a two-part sequence on optoelectronics, a continuation of optoelectronics I. This course provides the advance concepts in semiconductor optics and optoelectronics devices. Topics include the introduction to the light emitting devices, detectors, and modulators. Course also introduces the basic optical electro-optical and nonlinear properties of semiconductors, semiconductor lasers, optical detectors, amplifiers, modulators and switches. Most importantly, this course helps students to meet the demand of growing semiconductor optoelectronic industry and prepares them to advanced study and research in the semiconductor optics and optoelectronic devices. Prerequisites: EET 4444 Co-requisite: EET L445
EET 4421	Introduction to Robotics and Automation (3) This course is the second course in a two-part sequence. This course primarily deals in providing a thorough introduction to robotics and its applications in task automation. Students will get a chance to gain knowledge related to development of robots, different working models of robots, selection of appropriate sensors to a specific application, and programming a certain robot to perform the desired task. Projects may include construction and programming of mobile robots, assembly and test of individual components. Prerequisites: EET 3315, EET L315, EET 4420 and EET L420. Corequisite: EET L421.	EET L445	Optical Electronics II CAD Lab (1) This course acquaints the theory and concepts learned in EET 4445 through the hands-on computer aided design and simulation experiments. Co-requisite: EET 4445
EET L421	Introduction to Robots and Automation Lab (1) This course acquaints the theory and concepts learned in lecture through the hands-on construction of sensor circuitry and building robots. Students will learn to use DC motors and the motor controllers, sensors, transistors and diode circuitry etc. Also, students get a chance to integrate the sensor and mothers to the microprocessors. Co-requisite: EET 4421.	EET 4480	Senior Project I Capstone (3) This is the first of a two-semester sequence of Capstone course for EET majors. It provides students with unique opportunity to put together the knowledge and skills developed in his/her curriculum in the design and implementation of a project that culminates in a working solution. The project may be multidisciplinary or oriented toward a single engineering technology discipline. The student is expected to develop a working prototype, required to work on final project report and a formal oral presentation. The project may involve a team of students from more than one discipline, or a student may choose to work alone on a project. The project must be approved by department faculty. Prerequisites: Permission of Instructor.
EET 4425	Data Communication and Networking (3) Topics covered include but are not limited to microcontroller architecture, instruction sets, programming and interfacing with electronic circuits, interrupts, microcontroller peripherals, microcontroller application development tools and platforms. Prerequisites: EET 3315, EET L315.	EET 4481	Senior Project II Capstone (3) This is the second of a two-semester sequence of Capstone courses for EET majors. The course permits students to complete the project which was initiated in EET 4480. Prerequisites: Permission of Instructor.
EET 4435	LSI/VLSI Design (3) MOS Transistors – fabrication and characteristics. MOSFET scaling and short channel effects. Layer representation and layout rules. Analysis and design of inverters and inverter based circuits. Circuit and interconnection delays, driving large loads. Dynamic logic circuits. Memories, VLSI design strategies – Full custom Standard Cell and Gate Array design, FPGAs, System design. Testing and testability. CAD for VLSI. Prerequisites: EET 2215, EET 3315.	EET 4490	Travel Study in Electronics Engineering Technology (1-3) Supervised investigation of relevant topics in Electronics Engineering Technology through travel study abroad or within the interior of the United States.
EET 4440	Electronic Testing with Lab (4) Topics include, identifying and reading electronic circuit diagrams, using electronic test equipment to analyze circuits, applying systematic approach to fault finding, and location a range of faults to component level. Prerequisites: EET 2215, EET 3315.	EET 4497	Independent Study in EET (1-4) Independent study for students under the direction of a faculty member. Prerequisite: Permission of department chair.
EET 4444	Optical Electronics I (3) This course is an introduction to the basics of electromagnetic waves. It also introduces to the fundamental concepts and principles of optics, optical waveguides and devices. Next, the course talks about the introduction to optoelectronics, Gaussian beam propagation, interaction of light and matter, spontaneous and stimulated emission, laser rate equations. Prerequisites: EET 3312 Co-requisite: EET L444	EET 4498	Internship in Electronics Engineering Technology (1-3) Supervised work experience in the biotechnology industry, governmental agency, business, or other working environment in which a student will learn and apply pertinent professional skills.

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**ELEMENTARY EDUCATION COURSES  
(ELE)**

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ELE 3360	Teaching Social Science (3) This course provides a study of the varied dimensions of instruction in social sciences. Emphasis is placed on appropriate instruction and
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	resources, including technology for the instruction of students in grades K-6. Prerequisite: admission to TEP.	ELE 4491-92 Guided Independent Research (1 to 3 credit hours) Undergraduate research with attention to critical evaluation of research techniques, methods and procedures. Prerequisites: junior or senior standing with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Application forms are available in the Office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research."
ELE L360	Teaching Social Science Lab (1) This course includes Lab/Field-oriented experiences designed to enhance understanding of varied dimensions of instruction in social sciences. Prerequisite: admission to TEP. Co-requisite: ELE 3360.	
ELE 3361	Teaching Natural Science (3) This course provides a study of the varied dimensions of instruction in natural sciences. Emphasis is placed on appropriate instruction and resources, including technology for the instruction of students in grades K-6. Prerequisite: admission to TEP.	
ELE L361	Teaching Natural Science Lab (1) This course includes Lab/Field-oriented experiences designed to enhance understanding of varied dimensions of instruction in natural science. Prerequisite: admission to TEP. Co-requisite: ELE 3361.	ELE 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."
ELE 3362	Teaching Mathematics (3) This course provides a study of the varied dimensions of instruction in mathematics. Emphasis is placed on appropriate instruction and resources, including technology for the instruction of students in grades K-6. Prerequisites: admission to TEP, completion of MTH 2251 or MTH 2252 with a grade of C or better.	
ELE L362	Teaching Mathematics Lab (1) This course includes Lab/Field-oriented experiences designed to enhance understanding of varied dimensions of instruction in mathematics. Prerequisites: admission to TEP, completion of MTH 2251 and 2252 with a grade of C or better. Co-requisite: ELE 3362.	
ELE 4454	Internship Seminar for Elementary Education (3) This course provides seniors an opportunity during internship to examine broad educational issues and concerns, topics on the state and local levels and those of personal interest. The scope of the course ranges from juvenile law, classroom management professionalism, professional development for teachers and other course topics. Prerequisite: admission to TEP. Co-requisite: ELE Internship.	
ELE 4474	Internship in Elementary Education (9) The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. Prerequisite: admission to TEP. Co-requisite: ELE 4454.	
ELE 4481	Methods and Materials for the Elementary Teacher (3) Teaching methods, selection, organization and use of materials and resources in the elementary school discipline(s). Observations and teaching experiences will be included. Prerequisite: EDU 3310 and admission to TEP.	
		<hr/> <b>ENGLISH COURSES (ENG)</b> <hr/>
		ENG 0096 Fundamentals of Grammar and Sentence Writing (3) Developmental/remedial instruction in the basic elements of standard American English grammar, with an introduction to the essentials of effective written communication. Involves application of appropriate computer software. Students are placed in this course, ENG 1100 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 circumstance may this course be used to substitute for any general studies requirement; nor may it be used to meet minimum degree requirements. Grade of C or better and successful completion of exit exam required.
		ENG 1100 Preparatory English (3) Developmental/remedial 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 of 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



- ENG 3351 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.
- ENG 3352 Advanced Creative Writing I (3)  
Continued practice in writing poetry, short stories, and/or plays, along with a more advanced study of

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<p>ENG 4407 Fantasy Literature (3) This course will introduce the student to a wide range of Fantasy literature from the Middle Ages to Modern times. This course will discuss allegory and other subgenres that use fantastic elements that alter reality as we know it in order to concentrate on a very real problem in the human condition, especially when no better way exists for an author to make the point. Prerequisites: Six semester hours of 2000-level English courses.</p>	<p>ENG 4426 Modern Poetry (3) Study of 20th- and 21st-century poetry. Prerequisite: Six semester hours of 2000-level English courses.</p>
<p>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.</p>	<p>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.</p>
<p>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.</p>	<p>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</p>
<p>ENG 4414 British Novel Before 1900 (3) Representative novels by British writers of the 18th and 19th centuries. Prerequisite: six semester hours of 2000-level English courses.</p>	<p>ENG 4430 Shakespeare I: The Tragedies (3) Study of major and minor tragedies, with some attention to non-dramatic poetry. List of plays may vary with each offering. Prerequisite: Six semester hours of 2000-level English courses.</p>
<p>ENG 4415 American Renaissance (3) Selections from the major writers of the American literary renaissance, including such writers as Emerson, Thoreau, Hawthorne, Melville, Whitman, and Dickinson. Prerequisite: six semester hours of 2000-level English courses.</p>	<p>ENG 4431 Shakespeare II: The Comedies (3) Study of comedies and romances. List of plays may vary with each offering. Prerequisite: Six semester hours of 2000-level English courses.</p>
<p>ENG 4416 Nineteenth-Century American Novel (3) Study of representative American novels of the 19th century. Prerequisite: Six semester hours of 2000-level English courses.</p>	<p>ENG 4432 Shakespeare III: The Histories (3) Study of history plays, especially those concerning Wars of the Roses. List of plays may vary with each offering. Prerequisite: Six semester hours of 2000-level English courses.</p>
<p>ENG 4417 Modern Short Story (3) Examination of 20th and 21st century short stories. List of stories may vary with each offering. Prerequisite: Six semester hours of 2000-level English courses.</p>	<p>ENG 4433 Literary Criticism (3) Study of the major literary critics and their works from classical times to the present. Prerequisite: Six semester hours of 2000-level English courses.</p>
<p>ENG 4418 British Culture on Location (3) An intensive presentation of British culture on-site in London, Oxford, and other important British locations.</p>	<p>ENG 4434 Romantic Period in English Literature (3) Romantic prose and poetry with emphasis on the</p>
<p>ENG 4419 Advanced Writing (3) Provides students the opportunity to write, review, and evaluate texts relevant to the professions they plan to enter and to apply rhetorical analysis to specific writing situations. Prerequisite: Six semester hours of 2000-level English courses.</p>	<p>006 Tc .003</p>
<p>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 2200-level English courses; ENG 3351 or permission of instructor. Note: may be taken for credit no more than two times.</p>	
<p>ENG 4421 English Novel (3) Selected 18th, Prerequisite: Six semester hours of 2000-level English courses.</p>	
<p>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.</p>	



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- ENG 4489 Internship (3)  
Practical experience involving writing and editing skills while working under the supervision of the Alabama Literary Review staff.  
Prerequisite: ENG 3352, 3353 or permission of instructor.
- ENG 4490 Professional Writing Internship (3)  
Writing Practicum/Internship at a local industry, publisher, arts or public agency. Provides workplace experiences in solving problems in writing, including those of career preparation and development.  
Prerequisite: ENG 2260, and completion of at least three required courses and three electives in the major, or permission of instructor.
- ENG 4491-94 Guided Independent Research and Study (3)  
Thorough examination of material on a selected subject, requiring a documented research paper. Additional information indexed under "Guided Independent Research and Study."  
Prerequisite: six semester hours of 2000-level English courses. Note: Students who need regimentation of regular classroom to do good academic work should not attempt these courses. Also see index for "Independent Study and Research."
- ENG 4495 Senior Seminar in English (3)  
A senior-level course capstone designed to engage the student with the central questions of literary studies and to develop the student's skills in critical thinking and writing and in research. Must make a grade of C or better.  
Prerequisite: senior status.
- ENG 4498-99 Honors Research and Writing (1 credit hour per course per semester)  
The above courses are designed for outstanding students majoring in English. Taken collectively, they constitute the English upper-level honors program in which students may specialize in a selected area of literary study. Upon successful completion of all course work and other requirements, the student will be recognized as a graduate with English honors.  
Prerequisite: junior or senior level grade point average no less than 3.2 in English studies and completion of the English honors application procedure. Consult the department chair for additional information.

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**ENGLISH AS A SECOND LANGUAGE (ESL)**


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For more information, see the index for English as a Second Language Program.

- ESL 1100 Preparatory English Nonnative Speakers of English (3, with petition)  
 Instruction for nonnative speakers of English preparing for ENG 1101. Focus on application of rules of standard English grammar and U.S. composition patterns involves application of appropriate computer software and a variety of written activities. Students who do not pass the eWrite text are placed in this course. Students write five to seven in-class compositions and may be required to attend weekly session at the ESL Tutoring Center and ESL Computer Lab. Classes meet four days per week.  
 Note: This course will not substitute for any general studies requirement and will not be used in meeting minimum degree requirements.
- ESL 1102 Listening/Speaking VI Advanced  
 Academic focus: listening strategies for academic lectures, such as anticipating and organizing information; understanding connecting words and pronoun referents; recognizing analogy, quotations, and paraphrasing. Skill-building exercises include listening for main ideas, making inferences, listening for specific information, summarizing, and recognizing vocabulary in context. Speaking focuses on delivering oral presentations, engaging in academic discourse. Computer Lab requirement.
- 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 1106 Grammar VI Advanced

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FIN 3338 Intermediate Personal Financial Planning (3)  
Introduction and comprehensive overview of  
personal financial planning. Topics include



- Prerequisite: Permission of instructor.
- FRN 3311 French Culture on Location II (3-TBA)  
An in-depth presentation of French culture combining lectures, readings, films, audiotapes, discussions and intensive language practice on the Troy Campus with on-site visit to a Francophone environment.  
Prerequisite: Permission of instructor.
- FRN 4491/92 Guided Independent Research (1 to 3 credit hours per course per semester)  
Additional information is indexed under Independent Study and Research.
- FRN 4493/94 Guided Independent Study (1 to 3 credit hours per course per semester)  
Additional information is indexed under Independent Study and Research.

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### GAME DESIGN AND DEVELOPMENT COURSES (GDD)

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- GDD 2210 History Through Games (3)  
This course will utilize a variety of different game formats, including video games, role-playing games, board games and sports to explore historical concepts and events. Students will be encouraged to think analytically about the ways games interpret historical events versus textbook explanations.
- GDD 3310 History of Game Design (3)  
A focus on the history and development of different types of games and game mechanics. Emphasis placed on integrating games with their particular cultural and political context. Students will produce a working prototype of a game as a part of the class.
- GDD 3320 Game Development (3)  
An introduction to the concepts of game development, including theory, playtesting, marketing, crowdfunding, and the publication process. Students will refine and continue development of a game as a part of the class.  
Prerequisite: Either HIS 2210/GDD 2210 History Through Games
- GDD 4425 Special Topics in Game Design and Development (3)  
Advanced study of a designed topic of special interest.  
Prerequisites: Either HIS 2210/GDD 2210 History Through Games OR GDD 3310/HIS 3310 Game Design History AND permission of the instructor.
- GDD 4490 Internship in Game Design and Development (3)  
Supervised work in an agency that can provide practical experience in the field of study.  
Prerequisites: Senior standing, at least a 2.5 GPA, at least 12 completed hours towards the Game Design and Development minor, and the permission of the minor advisor, supervising instructor, department chair, and/or dean.
- GDD 4499 Game Design Capstone (3)  
This course requires the student to synthesize previous coursework in the minor. Students complete design and development of a working game, suitable for crowdsourcing, and public

COURSE DESCRIPTIONS · 156

- GEM L330 Advanced Measurement Analysis Lab (1)  
Field laboratory experience using EDM calibration baselines, conducting topographic mapping projects and control level loops, and testing for instrument errors. The student is introduced to the field use of data collectors.  
Co-requisite: GEM 3330.
- GEM 3366 Photogrammetry and Remote Sensing (3)  
Introduction to metric photogrammetry, interpretative photogrammetry, and remote sensing. Focuses on the theory, instrumentation, and practical application of photogrammetry to the problem of mapping the earth's surface. Remote sensing concepts, principles, sensors, and specific satellite platforms are covered in the course. Hands-on exercises are given that makes use of software to create stereo models, orthophotos, and perform image processing.
- GEM 3379 Introduction to Least Squares Adjustment (3)  
The theoretical principle of error propagation and

state conclusions, and write a final report based on the analysis and conclusions.  
Pre-requisite: GEM 4409.

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### GEOGRAPHY COURSES (GEO)

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- GEO 2210 World Regional Geography (3)  
Physical and cultural features, economy, and populations of the geographic regions of the world.
- GEO 2220 Digital Exploration of the World (3)  
Using digital technologies to collect and present multimedia information tied to locations and landscapes around the world. With storytelling as a communication methodology, this course teaches skills in exploring and visualizing historical change in space and time on the earth using mobile devices, internet, Augmented Reality (AR) and Virtual Reality (VR) technologies.
- GEO 2225 Geography of North America (3)  
This course is designed to introduce the student to the region of North America from a geographic perspective. This course examines the North American by investigating the survey of agricultural, industrial, and commercial development of Anglo-America, as well as covering physical and cultural environment, resource distribution, economy, and population characteristics. In examining the regional geography of North America, we will begin the course by exploring the basics in terms of the

chair at least two weeks in advance of the term in

use by a variety of interests on the World Wide Web. "Remote" spatial data analysis on existing databases will be an important component of the course.

Prerequisite: GIS 3390

- GIS 4490 GIS Senior Project (3)  
This course offers students with senior status, an opportunity to independently apply fundamental principles and concepts learned in the study of geospatial information science to a specific application. Each student will identify a specific problem, conduct background and literature research, collect and analyze spatial data, design and implement GIS functions/models to solve the problem, state conclusions and present the study in a final report.  
Prerequisite: Senior standing
- GIS 4491-92 Guided Independent Research (1-3)  
Additional information is indexed under Independent Study and Research
- GIS 4493-94 Guided Independent Study (1-3)  
Additional information is indexed under Independent Study and Research
- GIS 4499 GIS Internship (3)  
The course provides students with real work experience with an employer approved for the internship component of the GIS major. The student is expected to submit a written report and oral presentation to the faculty member directing the project, detailing the work experience.  
Prerequisite: GIS 3391

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### HISTORY COURSES (HIS)

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- HIS 1101 Western Civilization I (3)  
Survey of developments in Western history from the pre-historic era to modern times, including

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|----------|---|----------|--|
| HIS 2230 | <p>General Topics in History (3)<br/>                 Historical examination of a designed topic of special and/or current interest and importance generally not covered in regularly offered courses by the department. This course may be repeated once for credit.</p>   | HIS 3347 | <p>Cultural History of the United States since 1877 (3)<br/>                 This course provides a concentrated study of changing thought patterns resulting from the rise of</p> |
| HIS 2235 | <p>History of the American Civil War (3)<br/>                 This course introduces students to the legal, political, cultural, and military conflicts that redefined the United States between 1845-1877.</p>   |          |  |
| HIS 2280 | <p>Travel Study in History (1-3)<br/>                 Supervised investigation of relevant topics in history through travel-study abroad or within the interior of United States.<br/>                 Prerequisite: Permission of instructor. Course may be repeated with permission of instructor.</p>  |          |  |
| HIS 3302 | <p>History of Religion in the United States (3)<br/>                 A study of the development of religion in the United States, including denominations, beliefs, church life, and the relationship of religious beliefs to other beliefs and institutions.<br/>                 Prerequisite: HIS 1111 and 1112 or permission of instructor</p>  |          |  |
| HIS 3304 | <p>Military History of the United States (3)<br/>                 A study of war in United States history from the Colonial period to the present, with emphasis on the role of warfare in United States history and the relationship of the military to the civilian.<br/>                 Prerequisite: HIS 1111 and 1112 or permission of instructor.</p>  |          |  |
| HIS 3311 | <p>Civilization of Greece (3)<br/>                 Historical and cultural achievements of the Greeks and their legacy to the modern world.</p>   |          |  |
| HIS 3312 | <p>Civilization of Rome (3)<br/>                 Historical and cultural achievements of the Romans and their legacy to the modern world.</p>   |          |  |
| HIS 3314 | <p>History of Game Design (3)<br/>                 A focus on the history and development of different types of games and game mechanics. Emphasis placed on integrating games with their particular cultural and political context. Students will produce a working prototype of a game as part of the class.</p>  |          |  |
| HIS 3316 | <p>History of Alabama (3)<br/>                 A study of the demographic, political, social, economic, and religious aspects of Alabama's history, emphasizing the role of the state within the nation.<br/>                 Prerequisites: HIS 1111 and 1112 or permission of instructor</p>  |          |  |
| HIS 3331 | <p>Western Thought since the 17th Century (3)<br/>                 Principal ideas and political thinking from the Age of the Enlightenment to the present.<br/>                 Prerequisites: HIS 1101 and 1102 or HIS 1122 and 1123 or permission of instructor.</p>   |          |  |
| HIS 3346 | <p>Cultural History of the United States to 1877 (3)<br/>                 A study of American society through its literature, religion, philosophy, and the arts. Emphasis will be on immigration patterns, European cultural transfer, and environmental adaptations that created the American character.<br/>                 Prerequisites: HIS 1111 and HIS 1112 or permission of instructor.</p> |          |  |







- environmental problems and solutions attempted by government and experts, as well as responses by grassroots activists over time.  
Prerequisites: HIS 1111 and 1112 or permission of instructor.
- HIS 4451 Modern East Asia HIS 4467  
Study of the development and interaction of Chinese, Japanese, and Korean civilizations, the impact of Western cultures, twentieth-century conflicts, resolutions and accommodations.  
Prerequisites: HIS 1101 and 1102 or HIS 1122 and 1123 or permission of instructor.
- HIS 4452 History of the Medieval Middle East (3)  
This course covers the Middle East from the time of the birth of Islam through the founding of the Ottoman Empire in 1517. This class will provide a thematic treatment of issues like historiography, religious division, slavery, gender, and the status of Jewish and Christian communities under the Islamic Caliphs and Sultans.  
Prerequisites: HIS 1101 and 1102 OR HIS 1122 and 1123 or permission of instructor.
- HIS 4453 History of the Modern Middle East (3)  
This course covers the Middle East from Napoleon's invasion of Egypt through the present day, covering the 19<sup>th</sup> Century, Zionism, the fall of the Ottoman Empire, the Arab-Israeli Conflict, and the colonial and postcolonial periods.  
Prerequisites: HIS 1101 and 1102 OR HIS 1122 and 1123 or permission of instructor.
- HIS 4462 Age of Absolutism (3)  
Survey of political and religious controversies that shaped affairs in Europe during the 16<sup>th</sup> and 17<sup>th</sup> centuries, 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 HIS 1122 and 1123 or permission of instructor.
- HIS 4463 Europe in the Age of Enlightenment (3)  
Survey of European history in the 17<sup>th</sup> century, emphasizing developments in society, politics, economics, and culture. The course will broadly emphasize the changing nature of authority in the 18<sup>th</sup> century from the beginning of the century until 1789- the year of the French Revolution.  
Prerequisites: HIS 1101 and 1102 or HIS 1122 and 1123 or permission of instructor.
- HIS 4464 England to 1688 (3)  
A survey of English history from the Anglo-Saxons to the Glorious Revolution, emphasizing the interaction of geographic, political, economic, and cultural forces which shaped England as a monarchy.  
Prerequisites: HIS 1101 and 1102 or HIS 1122 and 1123 or permission of instructor.
- HIS 4465 England from 1688 (3)  
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 HIS 1122 and 1123 or permission of instructor.
- HIS 4466 Renaissance and Reformation (3)  
Historical review of the transitional centuries bridging the medieval and the modern eras, including the rebirth of art and literature, the Protestant and Catholic reform movements, and the role of kings and states.  
Prerequisites: HIS 1101 and 1102 or HIS 1122 and 1123 or permission of instructor.
- HIS 4467 Medieval Europe (3)  
Western Europe from the fall of Rome to the

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diversity in the region, cultural and political revolutions, and the area's relationship with the United States.

Prerequisites: HIS 1101 and HIS 1102 or HIS 1122 and HIS 1123 or permission of the instructor.

- HIS 4490 Senior Seminar in History (3)  
The capstone course for history majors which synthesizes students' coursework through research, historiography, writing, speaking, and reading comprehension.  
Prerequisites: senior standing at all institutions and HIS 3375. Note: Students must receive a grade of "C" or better for credit toward completion of degree requirements.
- HIS 4491-92 Guided Independent Research (1 to 3 credit hours)  
Additional information is indexed under Independent Study and Research.
- HIS 4493-94 Guided Independent Study (1 to 3 credit hours)  
Additional information is indexed under Independent Study and Research.
- HIS 4495 Selected Topics in History (3)  
Historical examination of a designed topic of special and/or current interest and importance, which is generally not covered in regularly offered courses by the department.  
Prerequisites: Applicable survey courses and permission of instructor.
- HIS 4498 Honors-Independent Study (1 to 3 credit hours)  
Advanced research and study for outstanding students in their major field. Culminates in report to a departmental committee that includes invited faculty members in related fields.  
Prerequisite: Senior level and 3.5 overall grade point average. Permission of guiding professor and approval of department chair and the dean of arts

- HRM 3376 Honors Global Human Resource Management  
(3)  
A survey of the roles, functions, and activities of human resource management including job analysis, job design, recruiting, selection, placement, training and development, compensation, employee and labor relations, and current issues in both the domestic and global environments for the superior student.  
Prerequisites: Lower-level core, SCOB Honors Student, and permission of the Associate Dean.
- HRM 4455 Employment Law (3)  
A study of the major employment laws and related

multifaceted nature of tourism as an industry including an overview of contemporary terms, contexts, activities, experiences, trends and developments related to working in tourism.

resort, and vacation rental operations, specifically

Prerequisite: HSTM 2220

- HSTM 3330 Festivals and Event Tourism (3)  
 This course provides a comprehensive overview of the festival and event tourism industry. Students will be introduced to the various types of festivals and special events as well as their personal, societal, cultural, economic and environmental consequences. The course also explores management issues and strategies necessary to plan, organize, fund, market, stage and evaluate tourism related festivals and events.  
 Prerequisite: HSTM 2220

- HSTM 3335 Facility Management (3)  
 This course is designed to provide the student with information concerning the planning, design, organization, and administration of sport, fitness and recreational facilities.  
 Prerequisite: HSTM 2255

- HSTM 3345 Recreation Programming (3)  
 This course provides the foundations of basic programming skills, methods, and techniques necessary to deliver recreational activities within a variety of settings, agencies, and organizations.

- HSTM 3350 Leadership Principles in Hospitality, Sport and Tourism Management (3)  
 This course is designed to assist students in undertaking and developing a personal philosophy on leadership. Students will be required to conduct self-evaluation, examine and develop a leadership philosophy, values and moral reasoning skills. Major leadership/ moral/ and ethical issues in hospitality, sport and tourism will be researched and discussed. The student will explore how personal ethics affect leadership and organizational responsibility.  
 Prerequisite: HSTM 2255, OR HSTM 2220, OR HSTM 2230.

- HSTM 3353 Legal Aspects in Sport Management (3)  
 In this course the student will gain an appreciation for the legal and business matters that pertain to sport and related areas. Students will acquire working awareness and understanding of the basic legal and business responsibilities of coaches, sport managers and practitioners, along with an understanding of legal terms, concepts and issues that influence the management of programs. Students will also develop appreciation for business elements of sport, which encroach upon the law.  
 Prerequisite: HSTM 2255

- HSTM 3365 Research Methods in Hospitality, Sport and Tourism Management (3)  
 The purpose of this course is to provide undergraduate students with a fundamental understanding of the research and evaluation process in hospitality, sport and tourism industries. The course is intended to familiarize students with research and evaluation principles, concepts, methods, techniques, and application that can be applied in a wide variety of leisure settings.  
 Prerequisite: HSTM 2255, OR HSTM 2230, or HSTM 2220.

- HSTM 3374 Resort and Hotel Management (3)  
 This course is designed to provide the student with a comprehensive overview of all aspects of hotel,

- HSTM 4419 **Tourism Enterprises (3)**  
This course concentrates on the creation and management of tourism business entities and the dynamics of operating these businesses successfully. Students will be exposed to entrepreneurial opportunities, business development and managerial activities associated with successful operation of tourism businesses.  
Prerequisite: Senior Standing.
- HSTM 4420 **Hospitality and Tourism Financial Management (3)**  
This course investigates principles, concepts, and current trends in financial and revenue management as related to the hospitality industry.  
Prerequisite: HSTM 2230 and HSTM 2220.
- HSTM 4423 **Current Issues in Hospitality (3)**  
This course is designed to serve as a mechanism for the introductions of new information and technology issues for the hospitality industry. This course will encourage the undergraduate hospitality student to remain current with contemporary developments in the hospitality industry.  
Prerequisite: Senior Standing
- HSTM 4425 **Human Resource Management in Hospitality (3)**  
This course focuses on decision making process that affects the performance, quality, and legal compliance of the hospitality business as a whole. Beginning with a foundation of the hospitality industry, employment law, and HR policies, the coverage includes recruitment, training, compensation, performance appraisal, environmental and safety concerns, ethics and social responsibility and special issues.  
Prerequisite: HSTM 2230.
- HSTM 4428 **Legal Aspects in Hospitality Management (3)**  
This course provides coverage of legal issues in hospitality and tourism, including those associated with hotels, restaurants, transportation, travel agents, tour operators, gaming, mixed-use, and timeshare properties.
- HSTM 4430 **Sport Marketing (3)**  
This course is designed to introduce the student to marketing principles and practices that are used in the specialized application of sport marketing. This course will also encourage students to consider how traditional marketing strategies may be applied to this substantial and growing industry.  
Prerequisite: HSTM 2255.
- HSTM 4431 **Analytics in HSTM (3)**  
The purpose of this course is to introduce students to the various applications of analytics in the hospitality, sport, and tourism industries and how these applications lead to data-driven decision-making. Students will become comfortable with coding in the programming language of R to perform analytic functions.  
Prerequisites: HSTM 2255, OR HSTM 2220, OR HSTM 2230.
- HSTM 4435 **Current Issues in Sport 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 encourage the undergraduate sport management student to remain current with contemporary developments in the sport industry.  
Prerequisite: Senior Standing.
- HSTM 4440 **Governance and Policy in Sport (3)**  
This course is designed to provide the student with information concerning basic structure and governing principles of various sport agencies. The course will include, but is not limited to, an examination of the National Collegiate Athletic Association, National Association of Intercollegiate Athletics, and national and international professional sports leagues. In addition, students will be introduced to the importance of policy development in the areas of finance, human resources, facility use and control, equipment, travel, public relations and risk management.  
Prerequisite: HSTM 2255.
- HSTM 4443 **Case Studies in Sport Management(3)**  
This course is designed to provide sport related cases containing actual and/or hypothetical facts/fact patterns, historical context, data, and related information to undergraduate students. Students are charged with assessing the situation, generating and analyzing potential solutions, and identifying optimal solutions to the problems presented in the case. Students are exposed to the issues facing sport organizations, and how management techniques can be applied to solve business problems. In addition, students will develop effective written and oral communication skills critical to success in the sport industry.  
Prerequisite: Permission of instructor.
- HSTM 4450 **Event Management in Hospitality, Sport and Tourism Management (3)**  
This course is designed to give advanced students the opportunity to plan, prepare and administer leisure-related events, thus providing students with practical experiences in hospitality, sport and tourism management. Students will gain experiences in event management, including planning, organizing, implementing, evaluating, directing personnel, securing sponsorships and marketing for multiple events.  
Prerequisite: Permission of instructor
- HSTM 4451 **Sport Finance (3)**  
This course is designed to provide the student with information concerning the basic theories of finance as applied to managerial control of sport organizations. Included are forms of ownership, financial analysis, financial issues in the sport industry, and economic impact studies.  
Prerequisite: HSTM 2255
- HSTM 4452 **Sport Communication and Emerging Technology (3)**  
This course is designed to provide the student with a fundamental understanding of community, media, and public relations in sport with a special focus on message development, image building, and crisis management. This course will also examine how emerging technologies influence communication strategies in sport, and the resultant impact these technologies have on the sport management.  
Prerequisite: HSTM 2255
- HSTM 4462 **Hospitality and Tourism Marketing**  
This course is designed to introduce the student to marketing principles and practices of hospitality and tourism. The course will review terminology, systems, techniques, and processes that are used in the specialized application of hospitality and tourism marketing. This course will also encourage students to consider how traditional marketing



understand how helping professions (social work, human services, rehabilitation) and the US justice system are relevant to each other. This course is advantageous with or without future plans of working in the criminal justice system.

- HS 3310 Human Behavior In the Social Environment I (3)  
The biopsychosocial aspects of human growth and development throughout the lifecycle. Emphasis is placed on understanding the individual in interaction with major social systems. Knowledge, skill, and value bases necessary for biopsychosocial assessment are built.
- HS 3325 Wellness Across the Lifespan I (3)  
Introductory examination of several aspects of wellness to include nutrition, physical activity, and mental wellness, from birth to young adulthood. This course exposes the student to resources related to a wellness plan.





university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience.  
Prerequisite: admission to TEP.  
Co-requisite: IED 4454.

- IED 4491-92 Guided Independent Research (1 to 3 credit hours)  
Undergraduate research with attention to critical evaluation of research techniques, methods and procedures.  
Prerequisites: Junior or senior standing with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Application forms are available in the Office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research." IS 3347
- IED 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." IS 3351

conceptual, logical, and physical modeling techniques. The emphasis is on relational DBMS, including modeling organization data, representation of data relationships, data definition and manipulation, database design and normalization concepts, data generation, and database administration.  
Prerequisites: IS 2241, IS 3310, or consent of instructor.

Honors Database Management Systems (3)  
This course is an introduction to database management systems (DBMS) and design via conceptual, logical, and physical modeling techniques. Emphasis is on relational DBMS, including modeling organization data, representation of data relationships, data definition and manipulation, database design and normalization concepts, data generation, and database administration. This course is designed for Sorrell Global Scholars students.  
Prerequisites: Sorrell Global Scholars student or permission of Associate Dean; IS 2241.

Business Programming (3)  
The course introduces and develops programming fundamentals, including program structure, assignment, data types, input/output, control flow, functions, arrays, strings, object structures, list processing, and advanced I/O. Using an integrated development environment (IDE), students will use packages and libraries to develop object-oriented programs with a focus on data analysis and data visualization.  
Prerequisites: Grade of 'C' or higher in IS 2241 and MTH 1112.

Honors Business Programming (3)  
The course introduces and develops programming fundamentals, including program structure, assignment, data types, input/output, flow of control, functions, arrays, pointers, strings, object structures, list processing, and advanced I/O. Using an integrated development environment (IDE), students will use packages and libraries to develop object-oriented programs with a focus on data analysis and data visualization. This course is designed for Sorrell Global Scholars honors students.  
Prerequisites: Sorrell Global Scholars student or permission of Associate Dean; Grade of 'C' or higher in IS 2241 and MTH 1112.

Honors Systems Analysis and Design (3)  
This course discusses the processes, methods, techniques, and tools to develop information system. The course sec8f6-2.4(Ind)6s0 p9(ecifrv.6(co

**INFORMATION SYSTEMS COURSES (IS)**

- IS 2241 Computer Concepts and Applications (3)  
This course provides an interdisciplinary introduction to computer literacy, security, word processing software, electronic spreadsheets, database software, presentation software, file management, and data storage.
- IS 3310 Introduction to Information Systems & Data Analytics (3)  
An introduction of information systems, their roles, and practical application in a digital business environment. Topics discussed include the fundamentals of modern business information systems for operational, strategic, and competitive decision-making is introduced and applied in real-world scenarios. IS 4446
- IS 3315 Advanced Applications for Accounting  
A computer software applications course in which students use electronic spreadsheet software and other application software to design and implement solutions to common accounting problems and issues.  
Prerequisites: ACT 2292, BUS 3310 and IS 2241.
- IS 3320 Data Communication & Networks (3)  
This course introduces the theory and practical applications of current technologies in data communication and computer networks. Emphasis is placed on data communication principles, local and wide area networks, and an understanding of the basic features, operation, and limitations of data communications and computer networks. Coverage includes wireless technologies, industry convergence, compression techniques, network security, LAN technologies, VoIP, and error detection and correction.  
Prerequisite: IS 2241, IS 3310.
- IS 3346 Database Management Systems I (3)  
This course is an introduction to database management systems (DBMS) and design via



an analysis of the educational environment's impact  
on the deaf/hard of hearing student and the myriad

in a community setting. A regularly employed interpreter is defined as a person occupying the professional interpreting role to which the student is aspiring. The interpreter-in-training is involved in interpreted interactions appropriate to his/her skill level and training. Interns receive feedback and supervision from on-site supervisors, group seminar supervisors, team interpreters, consumers, and faculty members. Interns are assigned to a business, organization, interpreting agency, qualified interpreter(s), or rehabilitation setting for 300 clock hours, 120 of which must be direct interpreting service. Students are also responsible for developing and fulfilling a Service Learning Project (SLP) equivalent to at least 20 hours of planning and 20 hours of service to the community serving adults. The SLP shall be in partnership with the community and sustainable.

Prerequisites: Sign Language Proficiency Interview rating of Intermediate Plus, and EDU 4463 with a grade of C or better or permission of ITP Academic Advisor.

ITP 4467 Interpreting Mentorship I: Sign Language/  
English Interpreting (3)

	Prerequisite: Sign Language Proficiency Interview rating of Intermediate Plus and ITP 4463 with a grade of "C" or better, or permission of ITP Academic Advisor.		Prerequisite: Completion of JRN 1102 with grade of C or better. Must make at least C or better in JRN 2201 before taking 3000 level or higher Journalism courses.
ITP 4493	Guided Independent Research I (1-3) Undergraduate research with attention to critical evaluation of research technique methods and procedures with work specialized to the Interpreter Training Program. Prerequisites for ITP majors: Junior or senior standing and only by permission of ITP Advisor and approval of department chair.	JRN 2211	Editing and Design (3) Editing copy and video, headline writing, layout and design for print, video and electronic publications plus dime communications. Prerequisites: JRN 1100 and 1102. Must make a C or better in JRN 2211 to receive credit toward degree.
ITP 4494	Guided Independent Research II (1-3) Undergraduate research with attention to critical evaluation of research technique methods and procedures with work specialized to the Interpreter Training Program. Prerequisites for ITP majors: Junior or senior standing and only by permission of ITP Advisor and approval of department chair.	JRN 2289	Social Media Practicum (1) Social Media has become an instrumental tool of communication for businesses and organizations of all sizes. Understanding how to use social media effectively as a professional resource is a skill important for any graduate. This course will provide students with real-world lessons and practical experience in the use and function of social media as a tool for public relations outreach and communication. Prerequisite: ENG 1101 or permission of the instructor.
<b>ITALIAN COURSES (ITL)</b>			
ITL 1101	Introductory Italian I (3) Introduction to the Italian language and culture.	JRN 3300	Digital News Photography (3) Discussion of and practical experience in digital and video photography for print, broadcast, electronic and online media.
ITL 1102	Introductory Italian II (3) Introduction to the Italian language and culture Prerequisite: ITL 1101.	JRN 3302	Feature and Magazine Article Writing (3) Researching and writing feature stories with emphasis on covering issues and trends in magazines, electronic and online publications, pitching ideas to editors and marketing articles as a freelancer. Prerequisite: JRN 2201.
<b>JAPANESE COURSES (JPN)</b>			
JPN 1101	Introductory Japanese I (3) Introduction to the Japanese language and culture.		
JPN 1102	Introductory Japanese II (3) Introduction to the Japanese language and culture. Prerequisite: JPN 1101 or permission of instructor.	JRN 3312	Advanced Editing and Design (3) Advanced study and practice in layout and design of newspapers, electronic publications and online media, including special pages and editions; typography and graphics; copy editing and video. Prerequisite: JRN 2211.
JPN 2201	Intermediate Japanese I (3) Progressive development of basic language skills in Japanese. Prerequisite: JPN 1102 or permission of instructor.		
JPN 2202	Intermediate Japanese II (3) Progressive development of basic language skills in Japanese. Prerequisites: JPN 2201 or permission of instructor.	JRN 3315	Advanced Reporting (3) News reporting and writing on sports, business, consumer affairs, the environment, and public affairs, particularly local and state government, the courts and education, in a multimedia environment including print, video and online communications. Emphasis is placed on use of background research and multiple sources and writing on deadline. Prerequisite: JRN 2201. Must make a C or better in JRN 3315 to receive credit toward degree.
<b>JOURNALISM COURSES (JRN)</b>			
Note: Reasonable proficiency in keyboarding (25 wpm) is a prerequisite for all journalism courses except COM 1101 and JRN 1103.			
JRN 1100	Technologies in Journalism (3) An introduction to the technological advances in journalism and the promotion of an understanding of the impact of these advancements. Must make a C or better.	JRN 3318	The Evolution of Broadcast News (3) From the very first television news broadcasts in the 1940s, to the women who broke barriers in a male dominated business, to news stations in China now using Artificial Intelligence to create virtual news anchors, this class will explore how broadcast news has evolved over the past 75 years. Students will learn how daily newscasts changed the manner in which Americans saw the world, and also how iconic news anchors helped shape the course of American history.
JRN 1102	Writing for the Mass Media (3) A basic course in preparing written materials for the mass media and for online communication, with emphasis on using Associated Press style and writing leads. Prerequisites: ENG 1101, 1102, JRN 1100, with grade of C or better in each course. May be taken concurrently with JRN 1100. Must make at least C or better in JRN 1102 before taking JRN 2201.	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 1103	Introduction to Radio and Television (3) An introduction to the electronic forms of mass communication with discussions on the theoretical and business aspects of radio and television, cable and corporate video communications, and an introduction to programming and regulations.	JRN 3327	Sports Broadcasting (3) Advanced methods, techniques and performance styles for broadcast sports news and information.
JRN 2201	Reporting (3) Gathering, evaluating and reporting the news for traditional and online media.		

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- 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 3335 Social Media Strategies and Engagement (3)  
This course explores and evaluates social media content and campaigns and how organizations can capitalize on social media for communication. Students will gain the knowledge and skills for

- JRN 4493-94 Guided Independent Study (1 to 3 credit hours per course per semester)  
Additional information is indexed under Independent Study and Research.
- JRN 4495 Communication Seminar (1)  
Study of issues related to communication theory, the history and future of communication industries, the impact of online communication and ethics. Additionally, students will create a professional portfolio.  
Prerequisite: At least a Junior Standing.

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**KINESOLOGY AND HEALTH  
PROMOTION COURSES (KHP)**

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- KHP 1101 Badminton (1)  
Physical education activity course.
- KHP 1107 Swimming (1)  
Physical education activity course.
- KHP 1108 Tennis (1)  
Physical education activity course.
- KHP 1109 Intermediate Swimming (1)  
Physical education activity course.
- KHP 1110 Paddle Tennis (1)  
Physical education activity course.
- KHP 1111 Archery (1)  
Physical education activity course.
- KHP 1112 Advanced Swimming (1)  
Physical education activity course.
- KHP 1122 Water Aerobics (1)  
Physical education activity course.
- 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.
- 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.
- KHP 1139 Fitness for Life I (1)  
Physical education activity course.
- KHP 1141 Jogging (1)  
Physical education activity course.
- KHP 1142 Weight Training (1) Water Aerobics (1)  
Physical education activity course.





- Prerequisites: Grade **C** or better in BIO 3347/L347 and BIO 3348/L348 or KHP 3360.
- KHP 4400 Sports Officiating and Programs in Intramurals (3)  
Focuses on school and community recreation programs, including sports, games and officiating techniques.
- KHP 4405 Physical Activity and Disease Prevention (3)  
This course will explore the link between physical activity and the major diseases experienced by modern day humans. Evidence for and against the potential benefits of physical activity will be reviewed for conditions such as coronary heart disease, cancer, stroke, diabetes, arthritis, low back pain, asthma, infection, high blood cholesterol, high blood pressure, obesity and stress.  
Prerequisites: Grade **C** or better in BIO 1100/L100 or BIO 3372/L372, and CHM 1142/L142, and KHP 3360 or BIO 3347/L347, and BIO 3348/L348.
- KHP 4410 Motor Development (3)  
An analysis of the ways in which children develop movement capabilities.  
Prerequisite: Junior standing or above.
- KHP 4425 Pathophysiology (3)  
This course explores the differences in normal and disordered physiological processes in human body cells, organs, and organ systems. In addition, this course examines the scientific evidence in support of the beneficial effect of regular physical activity on reduced mortality from all causes including cardiovascular diseases and metabolic disorders  
Prerequisites: Grade of "C" or better in BIO 3348/L348 and KHP 4474/L474
- KHP 4427 Health and Fitness Education (3)  
This course will discuss how to educate various age groups on health and fitness-related components of physical fitness, health behavior, and their application to health practice.
- KHP 4435 Current Issues in Athletics (3)  
This course provides current information, technology and legal issues for coaches and athletics. Students will identify ways to stay current with contemporary developments in athletics and how changes may be applied in the athletic setting.  
Prerequisites: Nine hours of 3000 level or above KHP courses.
- KHP 4442 Health Education (3)  
This course provides c

COURSE DESCRIPTIONS · 180

- KHP 4474 Exercise Physiology (3)  
Physiological mechanisms and adaptations of cells, tissues, organs and systems during physical activity. Prerequisites: Grade of C or better in KHP 3360 or BIO 3347/L347 and BIO 3348/L348. Co-requisite: KHP L474.
- KHP L474 Exercise Physiology Lab (1)  
Course will provide experience for applied exercise physiology principles as students are introduced to laboratory and field tests of muscular strength, anaerobic power, maximal oxygen uptake, body composition and other physiological measurements. Co-requisite: KHP 4474.
- KHP 4475 Exercise Testing and Prescription (3)  
Course will examine the criteria for evaluation of health status of persons wishing to begin an exercise program, guidelines of establishing current fitness level, and the basic principles of exercise prescription. Levels of certification and criteria by ACSM will also be discussed. Prerequisites: Grade of C or better in KHP 4474/L474.
- KHP 4476 Laboratory Practicum in Exercise Performance (2)  
Students will be introduced to some of the measurement techniques routinely used in exercise physiology and will gain practical experience in administration of these tests. Emphasis will be placed on how to avoid measurement errors. Prerequisite: Grade of C or better in KHP 4475.
- KHP 4481 Methods and Materials for the P-12 Physical Educator (3)  
Teaching methods, selection, organization and use of physical education materials in grades P-12. Topics addressed will include teacher evaluation in the public schools, collaboration with special education teachers, and lesson plan formatting. A professional laboratory experience is included in this course. Prerequisite: admission to TEP.
- KHP 4485 Teaching Individual and Team Sports I (3)  
Teaching methods, techniques, and officiating secondary team sport and individual physical fitness activities. Prerequisite: KHP 3330

- LAT 1131 Introductory Latin I (3)  
Introduction to the Latin language with emphasis on pronunciation, basic vocabulary, fundamentals of grammar, and graded readings.
- LAT 1132 Introductory Latin II (3)  
Continuation of LAT 1131.  
Prerequisite: LAT 1131 or permission of instructor.
- LAT 2231 Intermediate Latin I (3)  
Continuation of LAT 1131-1132.  
Prerequisite: LAT 1132 or permission of instructor.
- LAT 2232 Intermediate Latin II (3)  
Continuation of LAT 2231, culminating in the reading of authentic passages from selected Latin authors.  
Prerequisite: LAT 2231 or permission of instructor.
- LAT 3331 Readings in Latin Literature (3)  
Readings in a selected author, period, or genre. May be repeated for credit.  
Prerequisite: LAT 2232 or permission of instructor.

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### LAW COURSES (LAW)

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- LAW 2221 Legal Environment of Business (3)  
This course is an introduction to the fundamental concepts, principles, and rules of law and equity that apply to business activities. This course provides an overview of law in general, the American legal system, federal and state court procedures, effects on law-making by legislative, judicial, and administrative procedures. The course may also include constitutional law, business ethics, contracts, products liability, sales and commercial paper.
- LAW 3323 Entrepreneurial Law (3)  
This course is designed to explore in-depth the type of legal and ethical issues that entrepreneurs, small business owners, and family business owners encounter in the marketplace.  
Prerequisite: Lower-level Core, MGT 4475.
- LAW 4420 Administrative Law (3)  
Administrative law is the law relating to administrative agencies. An overview of the legal environment of public administration. The focus is on the powers and procedures of administrative agencies including administrative discretion, rule-making, investigations, prosecuting, negotiating and settlement based on Constitutional law, statutory law, common law, and agency-made law and the liability of governments and their officers.  
Prerequisite: LAW 2221.
- LAW 4425 Investigation and Evidence (3)  
An examination of theories and practices of the investigation process in the criminal justice system. An analysis of information and application of operational techniques relating to crime scenes,



- Prerequisites: BIO1101/L101, BIO 2229/L229, CHM 1143/L143.
- MB 4432 Biology and Conservation of Marine Turtles (2)  
An overview of the biology and conservation of marine turtles, including identification, distribution, nesting behavior, migratory behavior, and feeding ecology.  
Prerequisites: BIO1101/L101, BIO 2229/L229, CHM 1143/L143.
- MB 4438 Coastal Wetlands Ecology (3)  
This course will focus on coastal and near shore wetland areas, with an emphasis on the biogeochemical processes that occur within.  
Prerequisites: BIO1101/L101, BIO 2229/L229, CHM 1143/L143.
- MB 4451 Marine Technical Methods (2)  
This course will provide an introduction to different methods of sensing the ocean, including building and testing simple sensors, e.g., temperature and light, using Arduino microcontrollers and software, use of instruments to collect high-resolution data, and some background on how technology has led to key advances in marine science. The course will be primarily project-based, with students working together to build instruments, learn basic programming skills to control sensors, and going in the field to test instruments and collect environmental data.  
Prerequisite: CHM 1143/L143, BIO 2229/L229
- MB 4460 Introduction to Neurobiology (4)  
The study of the structure, development, physiology, and pharmacology of the nervous systems and sense organs.  
Prerequisite: Permission of instructor.
- MB 4461 Environmental Application of Geographic Information Systems (2)  
This course consists of learning applied mapping and analysis with GIS and will leverage other geospatial techniques including remote sensing, geo-visualization, and spatial analysis with particular emphasis on environmental application.  
Prerequisite: CHM 1143/L143, BIO 2229/L229
- MB 4470 Marine Restoration Ecology (2)  
The course provides an overview of the scientific and technical principles of marine habitat restoration. The students will discuss the role of key ecological concepts in restoration and the role of restoration in science and society. Students will learn how to design restoration projects and monitoring plans.  
Prerequisites: CHM 1142/L142, BIO 2229/L229.

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### MANAGEMENT COURSES (MGT)

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- MGT 3300 Principles of Management (3)  
An introduction to management functions, principles, and techniques. The course includes a

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(capstone)

This course is a survey and analysis of topics important to successfully managing multinational business operations. Included in the course are considerations of environmental analysis, modes of entry, planning and cross-cultural issues in directing, decision-making, organizing and staffing operations in multinational enterprises. Capstone for the Global Business Core.

Prerequisites: Lower-level Core, ECO 4451, HRM 3375, MGT 4471, and MKT 4468.

- MGT 4479 Management Seminar (3) (capstone)  
This course is a study of current management issues which examines the application of traditional management theory in the context of current management problems. This is the capstone course for the Management Concentration.  
Prerequisites: Lower-level Core, MGT 4440, MGT 4450, and MGT 4472.
- MGT 4486 Honors Leadership and Change (3)  
A study of leadership and change concepts applied to foundational concepts of leadership, motivational theories, and organizational change theories for the superior student. The primary focus of the course will be directed toward the application of these theories, practices, and concepts in an organizational setting, designed to enable an achievement of organizational goals and objectives, while also undertaking application oriented activities that encourage the development of critical thinking skills about the concepts. Emphasis will be placed on key similarities and difference between US organizations and international organizations.  
Prerequisites: Lower level core, MGT 3301, SCOB Honors student, and permission of the Associate Dean.
- MGT 4487 Honors Managing in a Global Environment (3)  
This course is a survey and analysis of topics important to successfully managing multinational business operations for the superior student. Included in the course are considerations of environmental analysis, modes of entry, planning and cross-cultural issues in directing, decision-making, organizing and staffing operations in multinational enterprises. Capstone for the Global

- MKT 4463 Retailing (3)  
This course examines the principles and practices of retail management. Topics focus on retail format; store location and layout; merchandise planning; inventory management; atmospherics; and customer service.  
Prerequisite: MKT 3300.
- MKT 4464 Marketing Research (3)  
This course examines the foundational role of research to the formulation of sound strategic marketing decisions. Topics focus on problem definition, research design, data acquisition, analysis, and interpretation. The systematic approach of harnessing data/information to drive effective marketing decision-making is also considered.  
Prerequisite: MKT 3300.
- MKT 4465 Supply Chain Management (3)  
This course examines the key concepts and principles associated with the flow of materials and information from suppliers to customers for both manufacturing and service firms. Topics focus on the procurement, operations, transportation, and integration activities associated with a firm's





an ethical command climate.  
Prerequisite: Permission of the Professor of  
Military Science for non-contracted cadets.



informed, reflective decision maker throughout the internship experience.

Prerequisite: admission to TEP.

Co-requisite: SED 4454.

MTH 4480 Study Abroad in Mathematics (1-3)

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covered at length. Students will apply advanced microphone techniques, utilize digital editing and plug-ins, and prepare a recording project portfolio. Prerequisite: MUI 3310.

MUI 4410 Arts Management/Concert Production(2)  
A study of artist management and concert production including show development, venue management, marketing and touring. A

- MUS 1149 Sangeet Ensemble (1)  
The ensemble will explore traditional and classical musics from the rich variety of cultures throughout India and the surrounding regions of Nepal, Pakistan, and Bangladesh through learning songs, melodies, rhythms and lore.
- MUS 1150 Guitar Ensemble (1)  
This course is designed to increase student knowledge of guitar ensemble and chamber music repertoire through performance, listening and concert attendance.
- MUS 1155 Opera Workshop (1)  
This course is a performance workshop, uniquely tailored to showcase enrolled students. Students will be assigned a scene or a role, be expected to learn music independently, coach music and presentation during ~~as~~ hours and perform on designated concert date(s). This course is open to all students interested in classical singing and performance. Students will audition for roles and be coached with positive reinforcement to be part of a successful performing ensemble representing the School of Music.
- MUS 1181 Band (1) Fall; (1) Spring  
Marching Band (fall) and concert band (spring).  
Open to all students by permission of director.
- MUS 1183 Collegiate Singers (1-3)  
Choral group devoted to performance of choral

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MUS 3384 Band Techniques (3)  
Organizational and instrumental strategies for  
teaching music through performance in band.  
Includes a field experience component.

Prerequisites: admission to the ASN Program, ENG 1101, MTH 1112 or MTH 1110, PSY 2200, BIO 3347/L347.

Prerequisites or Co-requisites: NSG 1130, NSG 1135.

- NSG 1135 Health Assessment Practicum (1-2)  
Focuses on applying knowledge and skills required to perform health assessments on diverse patient populations. Utilizes an evidence-based systemic approach to collect data in the assessment phase of the nursing process.  
Prerequisites: Admission to the ASN Program, ENG 1101, BIO 3347/L347, PSY 2200, MTH 1112 or MTH 1110.
- NSG 1140 Foundations of Adult Health Nursing (3)  
Builds upon knowledge from previous nursing courses and other scientific disciplines to explore patient-centered care

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the role of the professional nurse for adults in acute and long-term settings. Applies theoretical knowledge from nursing, scientific, environmental and humanistic disciplines.  
Prerequisites: NSG 1140, 1141, 2202, 2271, 2272, BIO 3372/L372.

NSG 2283

Adult Health Nursing II Practicum (2-4)

Focuses on the role of the professional nurse in providing high quality nursing care to adults. Utilizes an evidence-based approach in the continued application of the nursing process, emphasizing clinical decisions that are safe, ethical, and patient-centered. Prerequisites: NSG 1140, 1141, 2202, 2271, 2272, BIO 3372/L372.

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- NSG 3306 Perspectives of Professional Nursing (1)  
Explores the roles of the baccalaureate degree nurse. Presents the principles, 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 professional nursing practice.  
Prerequisite: admission to the BSN Program.
- NSG 3309 Health Assessment (2)  
Focuses on the assessment phase of the nursing process as a means of collecting data for use in making clinical decisions for the promotion of safe, quality care. Emphasizes acquisition of knowledge and skills required to perform health assessments focusing on physical, psychosocial, cultural, and spiritual components of individuals at various ages and communication of findings.  
Prerequisites: BIC 3347/L347, 3348/L348.  
Co-requisite: NSG 3310.
- NSG 3310 Health Assessment Practicum (1-2)  
Provides opportunities for students to practice health assessment skills required for culturally diverse individuals of all ages. Includes analysis and communication of findings for the promotion of safe,

nursing interventions, communication and collaboration for the promotion of optimal states of mental health.

Prerequisites: NSG 3300, 3306, 3309/3310, 3313/3314, 3315.

Co-requisite: NSG 3335.

- NSG 3335 Psychiatric-Mental Health Nursing Practicum (2-4)  
Provides clinical learning opportunities for students to provide illness and restorative care for individuals experiencing alterations in mental health states. Emphasizes evidence-based clinical reasoning in the application of the nursing process in facilitating human adaptive responses to mental health alterations.  
Prerequisites: NSG 3300, 3306, 3309/3310, 3313/3314, 3315.  
Co-requisite: NSG 3334.
- NSG 3336 Adult Health Nursing II (3)  
Continues to explore health alterations for adults in response to internal and external environmental dimensions, focusing on cardiovascular, respiratory, nervous, sensory, renal, reproductive, and multi-system trauma and shock. Examines selected theories for interrelationships among physical, psychosocial, cultural, and spiritual components. Emphasizes evidence-based clinical decisions in a caring environment for the utilization of therapeutic interventions, communication, and collaboration for promotion of optimal health states in adults.  
Prerequisites: NSG 3301, 3325/3326, 3334/3335. Co-requisite: NSG 3337.
- NSG 3337 Adult Health Nursing II Practicum (2-4)  
Provides clinical learning opportunities for students to further refine clinical skills and provide nursing care for adults with alterations in health states. Emphasizes clinical reasoning in the application of the nursing process in facilitating human adaptive responses to health alterations in the adult in the provision of safe, quality nursing care.  
Prerequisites: NSG 3301, 3325/3326, 3334/3335.  
Co-requisite: NSG 3336.
- NSG 3340 Ethics in Nursing (3)  
A discussion of traditional ethical theories,

nursing care in health promotion and clinical prevention health for individuals, families, communities and populations.

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NSG 4440	<p>Research and Evidence for the Practicing Registered Nurse (3)                  Designed for practicing registered nurses to develop knowledge and understanding in the research process, to become research consumers, and evaluate and integrate current evidence for best practice. Examines the interrelationships among theory, practice, and research. Emphasizes the ethical and legal considerations in the conduct of research and appraisal of evidence. Incorporates professional writing skills in the appraisal and dissemination of evidence.                  Prerequisites: Admission to RN Mobility Program; PSY 3301, QM 2241, OR STAT 2210</p>	PHI 3365  PHI 3380	<p>Bioethics in Historical Context (3)                  Examines moral problems in biomedical and scientific research, including ethical issues surrounding research involving human and animal subjects, eugenics, the human genome project, cloning and stem cell research.                  Travel Study in Philosophy (1-3)                  Supervised investigation of relevant topics in philosophy through travel study abroad or within the interior of the United States.                  Prerequisite: Permission of Instructor                  May be repeated for credit with permission of instructor.</p>
NSG 4493-94	<p>Guided Independent Study (1 to 3 credit hours)                  Additional information is indexed under Academic Regulations.                  Prerequisite: Permission of instructor. Also see index for "Independent Study and Research.."</p>	PHI 4493-94  PHI 4495	<p>Guided Independent Study (1-3)                  Guided independent study of a designed topic of special interest.                  Prerequisites: PHI 2203 or 2204 or permission of instructor.                   Selected Topics in Philosophy (3)                  Advanced study of a designed topic of special interest.                  Prerequisites: PHI 2203 or 2204 or permission of instructor.</p>

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**PHILOSOPHY COURSES (PHI)**

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PHI 2201	<p>Introduction to Political Philosophy (3)                  Major Classical sources of political thought and the application of these sources to contemporary political issues.</p>	PHI 4499	<p>Internship in Philosophy (1-3)                  Supervised work in an agency that can provide practical experience in the field of study.</p>
PHI 2203	<p>Introduction to Philosophy (3)                  Brief history of philosophical ideas and the basics of Aristotelian logic.</p>		
PHI 2204	<p>Ethics and the Modern World (3)                  An introduction to basic ethics and to contemporary ethical issues.</p>		
PHI 2205	<p>Introduction to Logic (3)                  An introduction to the basic concepts, principles, and methods of argument analysis and evaluation.</p>		
PHI 2210	<p>Critical Thinking (3)                  Examines problem solving techniques; decision making; basic concepts of inductive and deductive reasoning. Promotes reasoning skills applicable to career- and real-life situations.</p>		
PHI 2215	<p>General Topics in Philosophy (3)                  An examination of a designed topic of special and/or current interest and importance generally not covered in regularly offered courses by the department. This course may be repeated once for credit.</p>		
PHI 2280	<p>Travel Study in Philosophy (1-3)                  Supervised investigation of relevant topics in philosophy through travel study abroad or within the interior of United States.                  Prerequisite: Permission of instructor. Course may be repeated for credit with permission of instructor.</p>		
PHI 3301	<p>Western Philosophy (3)                  Survey of philosophical ideas from the ancient Greeks through the 20th century.</p>		
PHI 3310	<p>Applied Ethics (3)                  Advanced study of the ethical issues that arise in such intellectual endeavors as medicine, law, business, military science, engineering, etc.</p>		
PHI 3320	<p>Non-Western Philosophies (3)                  Introduces students to the philosophical traditions of the non-western world. Emphasis is on non-contemporary traditions of metaphysics, cosmology, ethics, philosophy of religion, social and political philosophy and logic.</p>		
PHI 3322	<p>Philosophy of Religion (3)                  Examines philosophical issues relating to religion, including arguments for and against God's existence, the problem of evil, the relation between divine foreknowledge and human freedom, the relation between religion and science, the problem of faith and reason, and personal immortality.</p>		

- PHY L263 Physics II with Calculus Lab (1)  
Laboratory work emphasizes basic principles of electricity, magnetism and optics, the use of measuring instruments, and interpretation of data.  
Co-requisite: PHY 2263.
- PHY 3310 Modern Physics (3)  
Topics covered include sp

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we will spend time learning how to define “politics” and “popular culture” so that we can understand how they interact. We will identify examples of politics being expressed in popular culture, and explore times when popular culture appears to be unaffected by politics. There is an emphasis on the historical progression of mass media, as well as the influence of the media on politics and policies.

- POL 1110 Social Media and Politics (3)  
The digital age has revolutionized the way that people get information and communicate. Where communication and information-gathering once took time and expertise, in the digital age, information and communication is now virtually instantaneous. This is both a benefit and hindrance to politics. On the one hand, candidates can have instant communication with supporters and the people that they represent. On the other hand, the ease of sharing information and communication lends itself to false narratives and presenting alternative truths. This class will examine digital media as a political tool. Students will learn how different digital media is from traditional media. They will learn positive and negative aspects of politics in the digital age. Students will be expected to actively engage in the political process through digital media. This class is a general studies course and will fulfill the general studies requirement.
- POL 2240 Honors American National Government (3)  
This course explores the stable political values that frame the US Constitution and have guided our societal environment for two hundred years. The course is intended for superior students and political science majors.
- POL 2241 American National Government (3)  
A study of the Constitution, federalism, the Presidency, Congress, the courts, and politics on the national level.
- POL 2260 World Politics (3)  
An investigation of the development, nature, and process of political actions across national boundaries in the



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- POL 4464 Arab-Israeli Conflict (3)  
This course focuses on the Arab-Israeli conflict since 1948 with a special focus on the challenges to conflict resolution on both the Arab and Israeli sides and the role great powers play in Middle Eastern politics. The course will begin by examining the major historical events from the birth of Israeli to the present day. Attention will be given to important groups, events, movements that will allow the complexity of this relationship to come to light. Additionally, the course will focus on the relationship between the West, particularly Europe and the United States, and the Middle East.
- POL 4465 Politics of the Developing World (3)  
This course examines the political and economic challenges faced by developing states. Theories and models of development will be analyzed in a variety of ways.
- POL 4466 Middle Eastern Politics (3)  
An introduction to the social and political institutions of the contemporary Middle East.
- POL 4467 Asian Politics (3)  
An introduction to the social and political institutions of Contemporary Asia.
- POL 4468 Russian Politics (3)  
This course provides an introduction to Soviet, post-Soviet, and Russian politics and the way we in the West study and think about them. The substantive focus is on the political process and its policy outcomes. Primary attention will be directed to post-1991 (i.e., post-Soviet) political institutional, elite, and policy concerns.
- POL 4469 Religion in Politics (3)  
This is a course that deals with the intersection between two contentious topics in the United States, religion and politics. In this course, the focus is on the manner in which religion, defined in organizational terms, as a system of beliefs, as a source of faith and morality, and as specific types of behaviors, intersects with and influences various aspects of American politics. These aspects of politics include morality and "moral politics" issues, political behaviors, public and individual opinions, campaigns and electoral mobilization, as well as domestic and foreign policy.
- POL 4470 European Politics (3)  
An introduction to the social and political institutions of contemporary Europe.
- 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



- PSY 2210    Developmental Psychology (3)  
A study of human development across the life-span with emphasis on psychosocial, physical, emotional, and cognitive changes.
- PSY 2230    Orientation to the Psychology Major (3)  
Introduction to the language of psychology, APA writing style, and library research. Also includes an over view of career paths in psychology.
- PSY 3301    Basic Statistics (3)  
An introduction to descriptive and inferential statistical concepts, methods, and tools. Topics to be covered include basic terminology, measurement, data description, probability, hypothesis testing, and inferential tests (parametric and non-parametric). May be used for Sociology credit.  
Prerequisite: MTH 1110 or higher, with a grade of C or above.
- PSY 3304    Abnormal Psychology (3)  
The study of mental disorders emphasizing their etiology, classification and amelioration as described in the current classification system of the American Psychiatric Association.
- PSY 3309    Advanced Statistics (3)  
Advanced quantitative methods in psychology. Topics include linear regression, analysis of variance, non-parametric techniques, estimation procedures, individual and multiple comparisons, and experimental design.  
Prerequisite: PSY 3301.
- PSY 3310    Sensation and Perception (3)  
A study of how sensory information helps both the human species and other animals to thrive. Exploration of the senses including their physiological makeup, development and functioning. Theoretical and empirical foundations of perception and the applications of perceptual knowledge are emphasized.  
Prerequisite: six semester hours of psychology and sophomore standing or above.
- 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 2230 and PSY 3301.
- PSY 3312    Psychology of Women (3)  
The study of women's experience and gender issues in the context of psychological theory and research.
- PSY 3315    Cultural and Diversity Psychology (3)  
This course is a theoretical and empirical analysis of how culture is connected to human behavior. Global cultural differences and perspectives will be discussed including research studies, theory, and

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- PSY 3365 Human Factors Psychology (3)  
Analysis of theoretical issues and research methods related to the interaction between people and machines and human performance. Topics include information processing theory, human control systems and displays, task simulation, perceptual and motor factors limiting human performance. Prerequisite: six semester hours of psychology.
- PSY 3370 Comparative Psychology (3)  
This course examines the development, causal mechanisms, evolutionary history, and function of the behavior of animals, including humans.
- PSY 3380 Social Psychology (3)  
A theoretical and empirical analysis of social behavior, including selected topics related to social perception, social influence, social interaction, and applied social psychology.
- PSY 3385 Evolutionary Psychology (3)  
An examination of human behavior and cognition from an evolutionary perspective.
- PSY 3390 Special Topics in Psychology (3)  
An examination of selected topics or issues in psychology.

	credit with a different assigned client. Prerequisite: PSY 4459 AND Instructor approval.	PSY 4478	The Behavior Analyst as a Professional and Ethical Practitioner (3) Through a variety of topics and activities, this course will prepare the student for working in a professional setting. Topics covered include the Professional and Ethical Code for Behavior Analysts and a selection of topics from Behavior Analyst Certification Board's BCBA/BCaBA Task List. Prerequisites: PSY 4474, PSY 4477.
PSY 4462	Applied Behavior Analysis Pre-Practicum (1) This course prepares students for participating in the applied behavior analysis practicum courses. Students must obtain liability insurance and pass a criminal background check. Students must pass a test on the ethics of working with special populations (e.g., client confidentiality). Students are required to take and pass the behavior analysis certification board's training module on experience and supervision standards. Students are required to complete 15 hours of observation of the practice of applied behavior analysis. Prerequisite: PSY 4459 AND permission of the course instructor.	PSY 4480	Senior Seminar in Psychology (3) A capstone course designed to integrate subject matter learned in previous courses, encourage critical analysis of contemporary issues, and contemplate future educational and employment opportunities in psychology. Prerequisite: Senior standing.
PSY 4470	Advanced Theories of Developmental Psychology (3) Comparative study of major developmental theories from the exogenous, endogenous, and constructivist paradigms. Includes historical components, contributions, criticisms, evaluation, and relevant research of each theory. Prerequisite: six semester hours of psychology.	PSY 4485	Psychology Study Aboard (3) This course examines how culture is related to human behavior. Relates major principles and theories of psychology to two or more cultures during a Study Abroad experience in a host country or countries. Prerequisites: PSY 2200 or Psychology Major or Minor.
PSY 4472	Applied Behavior Analysis Fourth to Fifth Edition Bridge Course (4) This course allows Applied Behavior Analysis Minors who have taken one or more of Troy University's Board Certified Assistant Behavior Analyst (BCaBA) verified course sequence courses under the Behavior Analysts Certification Board (BACB) Fourth Edition Standards to meet the coursework standards for the Fifth Edition. This course covers topics from the BACB Compliance Code and Disciplinary Systems, Professionalism, Measurements, Data Display and Interpretation, Experimental Design, Behavior Assessment, Behavior-Change Procedures, Selecting and Implementing Interventions, and Personnel Supervision and Management.	PSY 4490	Field Experience in Psychology—I This course is designed to provide students majoring or minoring in psychology with practical work experience in a psychology-related work setting within an approved agency or business. Students are required to complete a minimum of 45 documented, supervised clock hours during the semester or term in which enrolled in the course (transportation not provided). This class meets once a week in a seminar format. Students are required to meet with the Field Experience instructor the semester/term prior to the class in order to secure an approved site. Prerequisites: Junior or senior standing, instructor approval, and an overall institutional GPA of 3.0.
PSY 4474	Evaluation of Research for the Behavioral Treatment of Individuals with Autism and Developmental Delays (3) This course will present the behavioral view of autism and provide a brief overview of the history of behavioral treatment of autism and other developmental delays. This course will provide a brief overview of single-subject research designs and data analysis. Students will evaluate research studies that are seminal in the field of the behavioral treatment of children with autism and developmental delays in terms of (a) ethics, (b) research design, and (c) visual analysis.	PSY 4491	Guided Independent Research (3)
PSY 4476	Behavioral Treatment of Individuals with Autism and Developmental Delays (3) In this course, students will identify, describe, and practice behavioral change procedures using: (a) positive and negative reinforcement, (b) positive and negative punishment, (c) shaping, (d) each type of verbal operant, (e) extinction, and (f) differential reinforcement. Students will contrast discrete-trial teaching and incidental teaching methods and practice using both. Prerequisite: PSY 4459.		
PSY 4477	Behavioral Assessment of Individuals with Autism and Developmental Delays (3) This course will prepare the student to conduct behavioral assessments including a functional behavior assessment (FBA), VB-MAPP, and ABLLS. Based on the results of the assessment, students will write a behavioral treatment plan. Prerequisite: PSY 4459.		

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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".

PSY 4495 Field Experience in Psychology - II  
This course is designed to provide students majoring or minoring in psychology with practical work experience in a psychology-related work setting within an approved agency or business. Students are required to complete a minimum of 45 documented, supervised clock hours during the semester or term in which enrolled in the course (transportation not provided). This class meets once a week in a seminar format. Students are required to meet with the Field Experience instructor the semester/term prior to the class in order to secure an approved site.  
Prerequisites: Junior or senior standing, instructor approval, PSY 4490 and an overall institutional GPA of 3.0.

PSY 4496 Applied Behavior Analysis Practicum I (3)  
Prior to enrollment, students must have a criminal background check and professional liability insurance. Students must complete 250 hours of supervised experience delivering applied behavior analysis services in a clinical setting. Students must meet with the instructor for class, which counts as the group-supervision component. During class, students will practice delivering behavioral-analytic services. Students must meet weekly with an approved Board Certified Behavior Analyst (BCBA) for individual supervision. During individual supervision, the BCBA must (a) observe the student engage in practice and (b) provide written and verbal feedback on that practice according to the BACB guidelines for supervision. The course is limited to 10 students.  
Prerequisites: PSY 4462 AND permission of the instructor.

PSY 4497 Applied Behavior Analysis Practicum II (3)  
Prior to enrollment, students must have a criminal background check and professional liability insurance. Students must complete 250 hours of supervised experience delivering applied behavior analysis services in a clinical setting. Students must meet with the instructor for class, which counts as the group-supervision component. During class, students will practice delivering behavioral-analytic services. Students must meet weekly with an approved Board Certified Behavior Analyst (BCBA) for individual supervision. During individual supervision, the BCBA must (a) observe the student engage in practice and (b) provide written and verbal feedback on that practice according to the BACB guidelines for supervision. The course is limited to 10 students.  
Prerequisites: PSY 4496 AND permission of the instructor.

PSY 4498 Applied Behavior Analysis Practicum III (3)  
Students must complete 250 hours of supervised experience delivering applied behavior analysis services in a clinical setting. Students must meet with the instructor for class, which counts as the group-supervision component. During class, students will practice delivering behavioral-analytic services. Students must meet weekly with an

approved Board Certified Behavior Analyst (BCBA) for individual supervision. During individual supervision, the BCBA must (a) observe the student engage in practice and (b) provide written and verbal feedback on that practice according to the BACB guidelines for supervision. The course is limited to 10 students.

Prerequisites: PSY 4497 AND permission of the instructor.

PSY 4499 Applied Behavior Analysis Practicum IV (3)  
Students must complete 250 hours of supervised experience delivering applied behavior analysis services in a clinical setting. Students must meet with the instructor for class, which counts as the group-supervision component. During class, students will practice delivering behavioral-analytic services. Students must meet weekly with an approved Board Certified Behavior Analyst (BCBA) for individual supervision. During individual supervision, the BCBA must (a) observe the student engage in practice and (b) provide written and verbal feedback on that practice according to the BACB guidelines for supervision. The course is limited to 10 students.  
Prerequisites: PSY 4498 AND permission of the instructor.

QUANTITATIVE METHODS COURSES  
(QM)

QM 2241 Business Statistics and Data Analytics (3)  
An introduction to statistical and data analytics in business that supports business decisions and the solution to business problems utilizing descriptive and inferential statistical concepts and methods. Topics include grouping of data, measures of central tendency and dispersion, probability concepts, sampling, statistical estimation, and statistical hypothesis testing.  
Prerequisite: MTH 1112 and IS 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.

QM 3345 Operations Management (3)  
A study of how organizational processes are managed to provide goods and services to customers.  
Prerequisite: QM 2241.

- RED 3310 Language and Literacy K-6 (3)  
Literacy instruction for the K-6 learner with emphasis on child development, learning theories, individual differences, emergent and early literacy, principles of reading and language arts instruction, teaching strategies, and examination of current materials and instructional practices used in teaching literacy.  
Prerequisite: admission to TEP.
- RED L310 Language and Literacy Lab (1)



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**RELIGION (REL) COURSES**


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- REL 2210 Introduction to Biblical Studies (3)  
An Introduction to the books of the Old Testament (Hebrew Bible) and New Testament in their historical settings, emphasizing textual analyses, literary forms/ their function and use in the past and present in both the Jewish and Christian traditions.
- REL 2230 General Topics in Religion (3)  
Historical examination of a designed topic of special and/or current interest of importance generally not covered in regularly offered courses by the department. This course may be repeated once for credit.
- REL 2280 World Religions (3)  
Historical development and basic beliefs of the world's major religions.
- REL 2285 Travel Study in Religion (1-3)  
Supervised investigation of relevant topics in religion through travel-study abroad or within the interior of United States.  
Prerequisite: Permission of instructor. Course may be repeated for credit with permission of instructor.
- REL 3380 Travel Study in Religion (1-3)  
Supervised investigation of relevant topics in religion through travel-study abroad or within the interior of the United States.  
Prerequisite: Permission of Instructor  
Course may be repeated for credit with permission of instructor.
- REL 4445 Selected Topics in Religion (3)  
Advanced study of a designed topic of special interest generally not covered in regularly offered courses by the department. This course may be repeated once for credit.  
Prerequisites: REL 2210, REL 2280, or permission of instructor
- REL 4499 Internship in Religion (1-3)  
Supervised work in an agency that can provide experience in the field of study.  
Prerequisites: senior standing, at least a 2.5 GPA, 12 hours in upper-division courses in the field, and permission of supervising instructor, department chair, and dean. Course may be repeated for credit with permission of instructor.

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**RISK MANAGEMENT AND INSURANCE COURSES (RMI)**


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- RMI 3335 Principles of Risk Management and Insurance (3)  
An introduction to the legal principles underlying insurance, the basics of risk management, the application of risk management techniques to personal risk management problems, personal property and liability insurance contracts including the personal auto policy and the homeowner's

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- SCI 4493-94 Guided Independent Research (1 to 4 credit hours per course per semester)  
Additional information is indexed under Independent Study and Research.
- SCI 4498 Internship in Comprehensive General Science(1-3)  
Supervised work experience in the biotechnology industry, governmental agency, business, or other working environment in which a student will learn and apply pertinent professional skills.

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### SECONDARY EDUCATION COURSES (SED)

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- SED 4400 Classroom Management (3)  
This course is designed for all secondary and P-12 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.
- SED 4454 Internship Seminar for Secondary Education (3)  
This course provides seniors an opportunity during internship to examine broad educational issues and concerns, topics on the state and local levels and those of personal interest. The scope of the course ranges from juvenile law, classroom management, professionalism, professional development for teachers and other course topics.  
Prerequisite: admission to TEP.  
Co-requisite: SED Internship.
- SED 4474 Secondary Internship in Grades 6-12 (9)  
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience.  
Prerequisite: admission to TEP.  
Co-requisite: SED 4454.
- SED 4481 Methods and Materials for the Secondary Teacher (3)  
Teaching methods, selection/organization and use of materials and resources in the secondary school discipline(s). Observation and teaching experiences will be included.  
Prerequisites: EDU 3310 and admission to TEP.
- SED 4491-92 Guided Independent Research (1 to 3 credit hours)  
Undergraduate research with attention to critical evaluation of research techniques, methods and procedures.  
Prerequisites: Junior or senior standing with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Application forms are available in the Office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research."



- how population issues affect our society.  
Prerequisite: SOC 2275.
- SOC 4413 Sociology of Race and Ethnicity (3)  
This course explores the dynamics of race and ethnicity from a sociological perspective. Students will be introduced to the major sociological concepts and issues concerning racial and ethnic identity, intergroup relations, prejudice, discrimination, racism, immigration, and multiculturalism, including current trends.  
Prerequisite: SOC 2275.
- SOC 4421 Social Inequality (3)  
This course examines the structure of social inequality both in the U.S. and in the international context. It reviews theories of inequality and also explores empirical data on stratification both domestically and globally. It also examines how we can try to achieve more social equality and social justice both nationally and globally.  
Prerequisite: SOC 2275.
- SOC 4430 Sociology of Religion (3)  
An examination of the social institution of religion. The course will discuss modes of worship, the relationship between various religious systems and other aspects of society, the categorization of religious groups into cults, sects, denominations and ecclesia, and the rise of secularization in the 21 Century.  
Prerequisite: SOC 2275.
- SOC 4434 Sociology of Gender (3)  
Provides an analysis of the conceptualization of gender with a focus on the methods of studying gender, historical perspectives on gender, biological and social bases of gender, and how gender intersects with other stratification systems within societies globally. Using a multicultural perspective, special emphasis is placed on how gender is manifested in the family as well as other major social institutions.  
Prerequisite: SOC 2275.
- SOC 4444 The Sociology of Cinema (3)  
This course is designed to critically examine sociological issues within American Society via the lens of cinema.  
Prerequisite: SOC 2275
- SOC 4445 Trends in Globalization (3)  
The concept of "globalization" explores issues of





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<p>SPN 3332 Spanish Grammar and Composition (3)          Formal study of Spanish grammar and written composition.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>	<p>SS 3350</p>	<p>Social Science Study Abroad (1-3)          Supervised investigation of relevant topics in social sciences through travel, study abroad or within the interior of the United States.          Prerequisites: SS 2220 and permission of the instructor.</p>
<p>SPN 3333 Spanish Comprehension and Conversation (3)          Developing listening and speaking skills with emphasis on dialectal differences.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>	<p>SS 3375</p>	<p>Research Methods in the Social Sciences (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: ENG 1102 or equivalent, SS 2220</p>
<p>SPN 3335 Medical Spanish (3)          Practical Spanish for the medical and health-related professions          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>	<p>SS 3376</p>	<p>Social Science Statistics (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: STAT 2210 or equivalent.</p>
<p>SPN 3350 Spanish Culture on Location I (3-TBA)          Local orientation followed by study in a Spanish-speaking environment.          Prerequisite: Permission of instructor.</p>	<p>SS 4450</p>	<p>Selected Topics (3)          Designed as a vehicle for the exploration of topics of current interest within the major discipline of social science.          Prerequisite: SS 2220</p>
<p>SPN 3351 Spanish Culture on Location II (3-TBA)          Local orientation followed by study in a Spanish-speaking environment.          Prerequisite: Permission of instructor.</p>	<p>SS 4474</p>	<p>Internship in Secondary Social Science Education (9)          The Professional Internship Program is the culminating clinical field-based experience for</p>
<p>SPN 3370 Selected Topics in Spanish (3)          Selected topics generally not covered in other Spanish courses. May be repeated for credit.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>	<p>SS 4448</p>	<p>Peninsular Spanish Literature (3)          Selected authors, periods, or genres in the literature of Spain.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>
<p>SPN 4448 Peninsular Spanish Literature (3)          Selected authors, periods, or genres in the literature of Spain.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>	<p>SS 4449</p>	<p>Latin American Literature (3)          Selected authors, periods, or genres in the literature of Latin America.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>
<p>SPN 4449 Latin American Literature (3)          Selected authors, periods, or genres in the literature of Latin America.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>	<p>SS 4451</p>	<p>Peninsular Spanish Civilization (3)          Geography, history, cultural achievements, and institutions of Spain.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>
<p>SPN 4451 Peninsular Spanish Civilization (3)          Geography, history, cultural achievements, and institutions of Spain.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>	<p>SS 4452</p>	<p>Latin American Civilization (3)          Geography, history, cultural achievements, and institutions of Latin America.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>
<p>SPN 4452 Latin American Civilization (3)          Geography, history, cultural achievements, and institutions of Latin America.          Prerequisite: SPN 2241 and SPN 2242 or permission of instructor.</p>	<p>SS 4491-92</p>	<p>Guided Independent Research (1 to 3 credit hours per course per semester)          Additional information is indexed under Independent Study and Research.</p>
<p>SPN 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>SS 4493-94</p>	<p>Guided Independent Study (1 to 3 credit hours per course per semester)          Additional information is indexed under Independent Study and Research.</p>

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**SOCIAL SCIENCE COURSES (SS)**

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<p>SS 2220</p>	<p>Introduction to Social Science          An introduction to the study of society approaches its study from a common-sense perspective, rather than a formalistic perspective more common in social science. Students will see how seemingly diverse disciplines intermingle and connect to one another—anthropology and economics, for example. The goal of this course is to teach students critical thinking and problem-solving skills that will allow them to approach social issues in an objective and informed way.</p>
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independent study may be taken only in the applicant's major or minor field.

SS 4498

Social Science Theory (3)  
A survey of the major theorists in the social sciences, emphasizing those who made critical contributions influencing several social science

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operation, and structure of non-profit organizations. Will include management, grant writing, and leadership roles.

SWK 2280 Social Work 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.

SWK 2281 Social Work Research II (3)  
Introduction to evidenced based assessment and case management to include understanding and using the current DSM and other assessment materials. Introduction to writing assessments based on standardized criteria to include a treatment plan and preliminary measurement of goals. The use of research journal articles and technical and research reports generated by corporate and governmental agencies will be demonstrated. Recommend taking HS 2250 prior to this course.

SWK 3300 US Justice and the Helping Profession(al) (3)  
This course will explore historical and current issues in the US justice system that have resulted in the marginalization of disadvantaged populations, who typically enter into this system. It will provide an overview of the US justice system and how it interests with human services and social work. Specifically, the focus will be an exploration of the juvenile and adult justice systems as well as policies and strategies. Prerequisite: SWK 2281 or SWK 2280. Corequisite: SWK 3281. Credit by exam: 6.51.

SWK 3281 Child and Family Social Work (3)  
This course will explore the role of the social worker in the child and family system. Topics include child development, family structure, and the role of the social worker. Prerequisite: SWK 2281 or SWK 2280. Corequisite: SWK 3300. Credit by exam: 6.51.



	weekly seminar plus a minimum of 200 contact hours in a particular agency setting. This is the first of two required Practicum courses. Prerequisite: Social Work Major in good standing. Practicum must be approved by instructor in 4480.		(performers selected by audition) or crews in design, management, and/or technical theatre areas including scenery, prop-lighting, sound, costumes, make-up, business, box office, and publicity. May be repeated for credit. Prerequisite: THE 2215.
SWK 4483	Social Work Practicum III (6) Placement in a social service agency which provides the opportunity to practice and develop generalist practice social work skills under the joint supervision of a faculty and an agency supervisor. Includes a weekly seminar plus a minimum of 200 contact hours in a particular agency setting. This is the second of two required Practicum courses. The student must complete this course in the same agency as SWK Practicum II. Prerequisite: Must complete Social Work Practicum II.	THE 2211 THE 2221 THE 2230	Theatre for Youth (1-3) Provides introductory exposure to the field of Theatre for Young Audiences, including hands-on experience in skills related to performance, production, literature, creation and development, and pedagogical implications and opportunities. Scenic Techniques (2-3) A study of standard scenic practices and equipment for the theatre. Prerequisite: THE 2271 Performance Studio (1-3) This course provides a studio structure offering opportunities for student performance and production as well as development of new works, with emphasis on audience response and discussion. May be repeated for credit. Musical Theatre Repertoire (2-3) This course offers students opportunities to explore the musical theatre canon through historical context, vocal stylization, and performance techniques.
<hr/> <b>THEATRE COURSES (THE)</b> <hr/>			
THE 1115	Performance and Production Practicum I (1-3) Provides hands-on training related to theatrical productions in the Department of Theatre and Dance. Practicum students are assigned to casts (performers selected by audition) or crews in design, management, and-or technical theatre areas including scenery, prop-lighting, sound, costumes, make-up, business, box office, and publicity. May be repeated for credit.	THE 2232	
THE 1130	Introduction to Theatre (3) An introduction to theatre as fine art and as a vital part of our western culture, the course focuses on the aspects of audience, production, and performance. It is designed for the student who wishes to gain a fundamental understanding and an appreciation of the theatrical arts in our society.		
THE 1132	Introduction to Film (3) A historical and critical perspective of film production from North America, Europe, and Asia through which modern film production is interpreted, analyzed, and discussed. It is designed for the student who wishes to gain a fundamental understanding and an appreciation of film and its impacts on our culture and society.		
THE 1150	Creative Habit (1) Part of the introductory learning community established at the entry level for incoming theatre and dance students. Centering on Twyla Tharp's book <i>The Creative Habit</i> , the learning community examines strategies for successful studies in Theatre and Dance. Co-requisites: THE 1130, TROY 1101 and permission of department.		
THE 1160	Audition and Portfolio Techniques (1-2) This course provides an introduction to the practices and tools in the development of a professional audition, interview, and portfolio, and offers guidance in refining and presenting a professional self-image. Prerequisite: THE 1150, or the permission of instructor.		
THE 2215	Performance and Production Practicum II (1-3) Provides hands-on training related to theatrical productions in the Department of Theatre and Dance. Practicum students are assigned to casts (performers selected by audition) or crews in design, management, and/or technical theatre areas including scenery, props, lighting, sound, costumes, make-up, business, box office, and publicity. Prerequisite: THE 1115. May be repeated for credit.		
THE 2216	Performance and Production Practicum III (1-3) Provides hands-on training related to theatrical productions in the Department of Theatre and Dance. Practicum students are assigned to casts		

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THE 3302 Costume Techniques (2-3)

(performers selected by audition) or crews in design, management, or technical theatre areas including scenery, props, lighting, sound, costumes, make-up, business, box office, and publicity. May be repeated for credit.  
Prerequisite: THE 4415.

- THE 4432 Playwriting II (3)  
This course is a developmental class for students interested in pursuing further instruction in playwriting and screenwriting. This course is designed to challenge students to master an understanding of causal dramatic structure, and to break free of convention, developing their own voices, styles and storytelling techniques.  
Prerequisite: THE 3360
- THE 4441 Oral Interpretation (2)  
Study and application of the principles and practices of oral interpretation (reading) of literature, including individual and ensemble performance.
- THE 4443 Theatre History I (3)  
Through the study of literature and dramaturgy, this course traces the history of theatre from the origins of drama to English Restoration drama of the 18th century.  
Prerequisite: ENG 2205.
- THE 4444 Theatre History II (3)  
Through the study of literature and dramaturgy, this course traces the history of the theatre from the 19th century to the present.  
Prerequisite: ENG 2206
- THE 4451 Directing I (3)  
Script analysis and directing principles with studies in the direction of scenes from contemporary plays.  
Prerequisite: THE 3301.
- THE 4452 Directing II (2-3)  
Advanced study of directing, extending to period styles and culminating with the production of a one act play.  
Prerequisites: THE 3301, 4451.
- THE 4454 Creative Project (2)  
Requirement for all graduating theatre majors in a comprehensive program of study. Course involves

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develop goals. It also serves to assist non-traditional students considering career change.

Note: TROY 1103 is 3 credit hours for Troy Campus students and 1 credit hour for Dothan Campus students. This course is institutional credit only