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Modern financial accounting theory and practices applied to sole proprietorships, partnerships, and corporations.

Modern financial and managerial accounting theory and practices applied to an organization's liabilities, cash flows, planning, budgeting, and control. *Prerequisite: ACT 2291.*

Theory and applications of assets, liabilities, and owners' equity, revenues, expenses, and analytical process. *Prerequisite: ACT 2292.*

Theory and applications of assets, liabilities, and owners' equity, pensions, leases, earnings per share, and analytical process. *Prerequisite: ACT 3391.*

Municipal and governmental accounting; preparation and use of budgets, records, and statements. *Prerequisite: ACT 2292.*

Manufacturing and distribution cost accounting, material, labor and overhead costs in job order and process cost accounting. These courses must be taken in sequence. *Prerequisite: ACT 2292.*

Principles underlying establishment of complete accounting systems; applications to typical business organization; emphasis on the functions of control and protection. *Prerequisite: ACT 2292.*

An overview of emerging issues related to international accounting and reporting of financial information across national boundaries. The course will address topics such as accounting and auditing standards, disclosure practices, and financial reporting in a global business environment. *Prerequisite: ACT 3392.*

Theory and applications of accounting for business combinations, branches and segments, partnerships, and foreign currency transactions and translations. *Prerequisite: ACT 3392.*

Supervised study. Additional information is indexed under Guided Independent Research and Study.

Principals and dictates of individual capital and taxation of individual income. *Prerequisite: ACT 2292.*

Tax laws and regulations for partnership, corporations, estates and fiduciaries. *Prerequisite: ACT 4494.*

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

An examination of the methods and theory of traditional and contemporary approaches to archaeological research.

An anthropological examination of human cultural development and a survey of both contemporary and past human cultures. May be taken for sociology credit.

An examination of human biological development from the beginning of mankind through the Pleistocene age using evidence from archaeology, paleontology, biology, genetics and osteology.

Instruction in survey and excavation methods and techniques used in the discipline of archaeology.

Instruction in the methods and techniques used in the curation and analysis of cultural materials recovered from archaeological investigations.

An examination of the aboriginal cultures of North America prior to the period of European contact based upon archaeological evidence.

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.

Anthropological examination of a designated topic of special and/or current interest and importance that is generally not covered in regularly offered courses in the department.

An examination of the historical research methods and archaeological techniques used to investigate and interpret archaeological sites dating from the historic period.

A sociological and anthropological examination of language from a descriptive, historical and social perspective.

An anthropological examination of the role of religion and the supernatural among traditional peoples.

An introduction to Native American religions. Focused on basic concepts of Native religions, the course familiarizes students with various aspects of religion and world views drastically different from their own. Special attention is paid to the introduction of the 36-hour major.

**achievement of specific skills.** *Prerequisites: Junior or senior standing, with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which the study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Application forms are available in the office of University Records.*

COURSE DESCRIPTIONS - 98

Classical, Realism, Romanticism, and Impressionism.

Post-Impressionism to the present.

*requisite: IED 4454 Internship Seminar for Interdisciplinary Education.*

**Teaching methods, selection, organization, and use of art materials. Prerequisite: ART 3361 and admission to TEP.**

**Additional information is indexed under Guided Independent Research and Study.**

**Additional information is indexed under Guided Independent Research and Study.**



Acquaints the entry-level athletic training student with the opportunity to gain practical experience within a clinical and or traditional setting. The student will apply didactic academic preparation at their chosen professional setting. *Prerequisite: AT 4401.*

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Biological principles including chemistry of life, cell structure and function, bioenergetics, cell reproduction, heredity, and ecology. Credit for this course cannot be applied toward any curriculum in biology. *Co-requisite: BIO L100.*

Measurements, microscopy, ecology, cell structure, bioenergetics, cell reproduction, and heredity. *Co-requisite: BIO 1100.*

Biological concepts and life processes of protists, fungi, plants, and animals. *Prerequisites: BIO 1100, L100. Co-requisite: BIO L101.*

Survey of organisms from selected phyla, including anatomy, phylogeny, and life histories. *Prerequisites: BIO 1100, L100. Co-requisite: BIO 1101.*

Biological principles related to the role of humans in an ecosystem, with emphasis on the structure and function of the human body. Credit for this course cannot be applied toward

COURSE DESCRIPTIONS - 102

The development, structure, and function of plant tissues and organs, with the primary emphasis on structures. Prerequisites: BIO 1101, L101. Co-requisite: BIO 3325.

Taxonomy, structures, reproduction, and life cycles of fungi, algae, bryophytes, and vascular plants. Prerequisites: BIO 1101, L101. Co-requisite: BIO L326.

Taxonomy, structures, reproduction, and life cycles of fungi, algae, bryophytes, and vascular plants. Prerequisites: BIO 1101, L101. Co-requisite: BIO 3326.

Anatomical terminology, a survey of cell types and tissues, and detailed coverage of the integumentary, skeletal, muscular, and nervous systems of humans. Prerequisites: BIO 1100, L100 or BIO 1110, L110 and CHM 1142, L142 or CHM 1115, L115. Co-

Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. *Prerequisites:* BIO 2229, L229, CHM 1143, L143. *Co-requisite:* BIO 4413.

Food spoilage, food preservation, food-borne pathogens, microbial metabolism, and molecular techniques. *Prerequisites:* BIO 3372, L372, CHM 3342, L342. *Co-requisite:* BIO L414.

Advanced microbiological laboratory techniques including enumeration and analysis of bacteria in food, water, and dairy products. *Prerequisites:* BIO 3372, L372, CHM 3342, L342. *Co-requisite:* BIO 4414.

The taxonomy, diversity, and ecology of microbial populations in ecosystems, with the emphasis on the roles that they play in biogeochemical cycles, their contributions to metabolic diversity, their interactions with animals and plants, their niches and bioremediation. *Prerequisites:* BIO 3372, L372, CHM 3342, L342. *Co-requisite:* BIO L416.

Environmental microbiological laboratory techniques including isolation, identification, and enumeration of microorganisms from aquatic and terrestrial environments. *Prerequisites:* BIO 3372, L372, CHM 3342, L342. *Co-requisite:* BIO 4416.

The basics of vertebrate identification, with emphasis on phylogeny, anatomy, morphology, life histories, habitats, distributions, and conservation. *Prerequisites:* BIO 1101, L101, CHM 1143, L143.

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 2229, L229, 3320, L320, CHM 1143, L143, and MTH 2210. *Co-requisite:* BIO L421.

Field exercises in identifying ecological problems, formulating and testing hypotheses, and evaluating data using standard statistical methods. *Prerequisites:* BIO 2229, L229, 3320, L320, CHM 1143, L143, and MTH 2210. *Co-requisite:* BIO 4421.

Survey of vascular plants from different habitats in southeast Alabama. Principles of plant taxonomy, including history and systems of classification and





COURSE DESCRIPTIONS · 106

of ions, states of matter, chemical equilibrium, and chemical bonding, and will incorporate examples from the biological sciences. *Co-requisite: CHM L115.*

The laboratory sessions will provide an overview of some of the basic concepts and techniques of general chemistry experiments. The students will conduct experiments that illustrate the concepts and principles learned in the Survey of Chemistry course lectures. *Co-requisite: CHM 1115.*

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

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

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

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

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

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

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

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

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

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

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

Practical applications of thermochemistry, colligative properties, and reaction kinetics. *Co-requisite: CHM 3350.*

Physical and chemical properties of proteins, nucleic acids, fatty acids, and carbohydrates with emphasis on the relationship between chemical structure and biological function. *Prerequisite: CHM 3343. Co-requisite: CHM L357.*

Laboratory experiments emphasizing the biochemical techniques used in isolation and characterization of macromolecules. *Co-requisite: CHM 3357.*

Introduction to the structure, function and metabolism of proteins, carbohydrates, lipids and nucleic acids; intermediary metabolism and bioenergetics; enzyme structure, function and kinetics; and storage and expression of genetic information. *Prerequisite: CHM 3357.*

Theory and applications of thermodynamics, reaction kinetics, and transport properties with an emphasis on the description of ideal/non-ideal gases and solutions.

A continuation of CHM L381 with an introduction to methods and techniques in computational chemistry and spectroscopy. *Co-requisite or prerequisite: CHM 3382.*

A study of topics of special interest, such as advanced physical chemistry, advanced analytical chemistry, advanced organic, group theory, surface chemistry, and colloid chemistry. *Prerequisites: CHM 2242 and CHM 3343.*

A more in-depth study of many of the topics studied in Organic Chemistry I and II. Topics include reaction mechanisms, synthetic methods, structure determination using spectroscopic techniques, and stereochemistry.

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management, legal aspects of administration, financial management, and organizational change.

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.

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 issues of child abuse, and the operation of treatment programs.

An introduction to the administration of private security, the analog to the police in the public sector. Issues in private security concerning ethics, law, and policy, as well as administration, are considered.

An examination of crime, overall and by category,

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operations and administrations. Special emphasis is attached to current problems surfacing in law enforcement.

A detailed examination of applied concepts of leadership and problem solving in corrections and administration. Special emphasis is attached to current problems surfacing in corrections.

A study of the critical issues and concepts involved in modern court administration, including the law governing the presentation of evidence in the trial of criminal cases, analysis of the role of law, and the courts in American Society.

An historical perspective of the polygraph and an overview of legal issues concerning clinical polygraph examinations, criminal specific examinations, and the limitations of polygraphs.

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 September 11, 2001.

This course will introduce the topics of computer crime and computer forensics. Students will be required to learn different aspects of computer crime and ways to uncover, protect, and exploit digital evidence. Students will be exposed to different types of tools, both software and hardware, and an exploration of the legal issues affected by on-line and computer-related criminal conduct. The course will examine the evm-ciciamp.S6ographiAnt me andsu enfofepec7nfofeogmfoexa cTJ0 -1.16.7TD0 Tc0Ant ,pations e1746.6.7.165

**Additional information is indexed under Guided  
Independent Research and Study.**

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Independent Research and Study.**

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**Practice in both oral and written communications.  
Focuses on improvement and development of pre-**

Provides student the opportunity to gain experience and training in an additional high level language. Topics include interactive techniques, arrays, multiple forms, data files and databases, grids, graphics, OLE, DLL's and custom objects. Emphasis is on finding creative solutions to application problems. *Prerequisite: CS 2260.*

Boolean algebra and design and minimization of combinatorial and sequential circuits. This course includes laboratories that demonstrate how simple circuits are designed and what problems may be encountered in design, such as hazards and race conditions. *Prerequisites: CS 2261, MTH 2215.*

Organization and operation of computer systems. Topics include hardware components of digital computers, micro-programming, memory management, interrupt organization, addressing modes, and instruction formats. *Prerequisite: CS 3357.*

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

Formal language theory, including the Chomsky hierarchy, is presented. Emphasis is placed on regular and context free grammars, finite state automata, and translators. *Prerequisite: CS 3370.*

A continuation of Fundamentals of AI. A topic of research including logic programming, fuzzy sets genetic algorithms, artificial neural networks, or pattern analysis is included. *Prerequisite: CS 3331.*



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

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

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

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

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

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

Comprehensive exit assessment of student competencies in theatre. The student will develop a major field-related project, pass an exit exam, and complete a program assessment. Project proposals must be submitted prior to the semester in wh.3(3(o)0.8(r to )6.6(the)4.6( sem)52:h)6.6(the)4.6(1h6(Cap c0.0029 Tw[sty]-12.9(1ud)7.3(y)16.1(

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

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: ECE Internship.*

Experiences in internship, i.e., observation, participating and teaching with supervision. Twenty-five clock hours for each credit hour. *Prerequisite: Completion of all courses required by the State Department of Education and the approval of the Director of Professional Laboratory Experiences.*

Half-day observing and teaching under supervision. *Prerequisite: Holder of an Alabama Class B Teacher Certificate; successful completion of two years teaching experience in grades P-3; completion of all courses required for certification in Early Childhood Education and approval of the Director of the Professional Internship Program.*

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.*



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







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Study of works by writers from the American South from colonial times to the present. *Prerequisite: 6 semester hours of 2000-level English courses*

Survey of drama from the middle ages and Renaissance, excluding Shakespeare. Begins with brief

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Analysis, planning and control of internal and external finance decisions of a firm with emphasis on corporate structure. *Prerequisite: ACT 2292.*

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

Introduction to the French language and culture.

Introduction to the French language and culture.

Reinforcement of fundamental skills, study of sophisticated language structures and reading of simple French prose and poetry. *Prerequisite: FRN 1102 or equivalent.*

Reinforcement of grammatical skills, reading of simple French prose and poetry, composition and conversation. *Prerequisite: FRN 2201 or equivalent.*

Advanced-level reading, intensive work on composition, comprehensive treatment of French phonetics. *Prerequisite: FRN 2202 or equivalent.*

Advanced-level reading, intensive work on composition, aural comprehension, and practical conversation facility. *Prerequisite: FRN 2202 or equivalent.*

A survey of the geography, history, cultural achievements, institutions and daily life of the French. *Prerequisite: FRN 3301 or equivalent.*

The issues of boundary location and retracement are central to this course. Focuses on Alabama survey history, the practice of surveying in Alabama, professional ethics, and the Standards of Practice for Surveying in Alabama. *Prerequisite: GEM 3309.*

The student gains practical field experience in an off-campus field boundary retracement project provided as a joint effort of Troy University, the Alabama Society of Professional Land Surveyors, and the Federal Bureau of Land Management. *Prerequisite: GEM 3310.*

Survey equipment calibration, survey astronomy, topographic mapping, control leveling, instrumentation error, and the propagation of error through survey calculations. This course is the second course of a one-year study of survey fundamentals. *Prerequisite: GEM 2220. Co-requisite: GEM L330.*

Field laboratory experience gaining astronomic observations for azimuth, 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.*

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COURSE DESCRIPTIONS · 124

This laboratory provides the student the opportunity to learn and use ArcInfo GIS to accomplish a full range of GIS applications.

Explores the theoretical foundations of route and construction surveying. Course topics are coordinate geometry (COGO), horizontal and vertical curve models, spirals, alignments, stationing, cross sections, areas, volumes, and route design elements. *Prerequisites: GEM 1100 or the equivalent, and GEM 3330. Co-requisite: GEM L405.*

This field laboratory applies the principles of route and construction surveying, the use of civil design software, and the use of data collectors for practical design and field layout. *Co-requisite: GEM 4405.*

Explores the concepts and problem/TT2 1p0/TT2 1/TT2 11 wi5.9(th)TJ0 -1.0333 TD0.0006 Tc0.0027 Tw(Ghe )d7.3(te-2.3(s)gn a6.6(and p

**A study of the physical properties of weather and climate.** *Prerequisite: Twelve hours of science or social science.*

**Analysis of the reciprocal effects of geography and political organization on the behavior of states including boundaries and frontiers, national resources, spatial strategy, and maritime power.**

**The conservation of natural and human resources with emphasis on population expansion as the major element in changing ecology.**

**Spatial patterns of economic activities including production, distribution, consumption, and the environmental consequences of these activities.** *Prerequisite: Twelve hours of social science.*

**Historical, physical, economic, and societal evolution of the urban area. American metropolitan**

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

**Introduction to the ancient Greek language with emphasis on pronunciation, basic vocabulary, fundamentals of grammar, and graded readings.**

**Continuation of GRK 1111. Prerequisite: GRK 1111.**

*Note: The study of Greek may be continued under the headings of CLA 4400 Special Topics in Classics and CLA 4493-4494 Guided Independent Study. Also see index for "Independent Study and Research."*

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**Survey of developments in Western history from the pre-historic era to early modern times, including classical antiquity, Middle Ages, and Renaissance and Reformation.**

**Survey of developments in Western history from modern times to the contemporary era, including the Scientific Revolution, Enlightenment, French Revolution and Napoleon,**

strations, and Vietnamization and withdrawal under President Nixon. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

*\*May be used for political science credit.*

A study of the demographic, political, social, economic, and religious aspects of Alabama's history, emphasizing the role of the state within the nation. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

An introduction to the history of women in America from the 17th century to the present, exploring the major economic, religious, social, and political ideas and developments which have shaped their status and role in American history. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

An examination of the historical research methods and archaeological techniques used to investigate and interpret archaeological sites dating from the prehistoric period.

Western Europe from the fall of Rome to the Renaissance, including religious and intellectual traditions and the revival of governmental institutions. *Prerequisites: HIS 1101 and 1102 or permission of instructor.*

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 permission of instructor.*

Survey of political and religious controversies that shaped affairs in Europe during the 16th and 17th centuries, emphasizing the flowering of monarchy and aristocracy. *Prerequisites: HIS 1101 and 1102 or permission of instructor.*

An examination of the political, social, racial and religious trends and policies that defined the New South. Topics include reconstruction, redemption, agrarian unrest, Jim Crow, industrialization, Progressive Movement, World War I, the Great Depression, World War II, and the Civil Rights Movement. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

Study of the colonial period from European discovery to the end of the French and Indian War, with emphasis on the political, economic, and social developments that set the stage for the American Revolution. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

Ideas and institutions which led to American independence, the creation of the American union, and the development of a distinctive American culture in the Early National Era. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

Examines nationalism, Jacksonian democracy, territorial expansion, slavery and sectional strife, and the resulting Civil War and Reconstruction. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

Includes agricultural decline and crisis, industrialization and urbanization, Progressive reform era, World War I, and America as a world power. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

Includes America in the Great Depression, World War II and the Cold War, Civil Rights Movement, Johnson's Great Society, and America as a superpower. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

Study of selected ethnic, racial, cultural, social, and religious minorities, their treatment within and their contributions to American society. *Prerequisites: HIS 1111 and 1112 or permission of instructor.*

A study of the factors, forces, and functions in the making of American foreign policy from the 1760s to 1920. *Prerequisites: HIS 1111 and 1112 or permission of instructor. May be used for political science credit.*

Study of the origins of the Civil Rights Movement in the late nineteenth and twentieth centuries, beginnings of change in the 1930s and the World War

II era, and the movement itself as defined by legal, political, and social conflict and change from the latter 1940s to the present. *Prerequisites: HIS 4414 and 4415 or permission of instructor.*

A study of the history of the Eastern Slavic people from the prehistoric period through the Kievan, Appanage, Muscovite, and Imperial periods, from Peter the Great to the emancipation of the serfs in 1861. *Prerequisites: HIS 1101 and 1102 or permission of instructor.*

The development of the revolutionary movements and tsarist reform attempts, World War I, revolutions of 1917 and Bolshevik victory, establishment of the Stalinist state, World War II, Cold War, Soviet domestic problems, and the disintegration of the USSR. *Prerequisites: HIS 1101 and 1102 or permission of instructor.*

Study of important civil rights personages and their writings from Frederick Douglass and other pre-Civil War activists and thinkers to the present. *Prerequisite: HIS 4430.*

An analysis of the physical and cultural factors in the development of North America from early

An introduction to environmental history of the United States from the 18th century to the late 20th century, emphasizing the post-World War II period. The course will focus on the historical development of the science of ecology, the origins of 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.*

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 permission of instructor.*

Principal ideas and political thinking from the Age of the Enlightenment to the present. *Prerequisites: HIS 1101 and 1102 or permission of instructor.*

An introduction to the met

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

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

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

Physical education activity course.

Physical education activity course.

Physical education activity course.

Physical education activity course.

Physical education activity course.

Personal health as it applies to practices, knowledge and behavior.

Physical education activity course.

Physical education activity course.

Physical education activity course.

Physical education activity course.

Physical education activity course.

A study of the historical, philosophical and theoretical foundations of health education and health promotion, including the current status and projected trends in health education and promotion.

Physical education activity course.

A study of health concepts that characterizes a process in the life cycle that is typical of every individual.

A study of the history and principles of health education and physical education with particular emphasis placed on present practices and trends.

Camping, leadership and program planning.

Social, folk and square dancing, including basic rhythmic activities which can be taught in elementary, middle and high schools.

Community first aid and safety instruction and CPR for the professional following American Red Cross techniques.

Personal conditioning-based course focusing on training principles, modes of exercise, training tools, performance enhancers, measurement concepts and exercise prescription.

Physical education activity course.

Physical education activity course.

Organization and teaching of the fundamental skills for water safety and the prevention of drowning.  
*Prerequisites: Advanced swimming or permission of instructor.*

Physical education activity course.

Physical education activity course.

This course covers the rules, regulations, terms, origin, development, safety, equipment, and performance of skills of the physical sport skills related to HPR 4485/4486.

Physical education activity course.

Physical education activity course.

Traces the historical development of fitness, conditioning, and wellness concepts for life. Identifies rules, regulations, and terminology of specified sport activities. Students are expected to perform specified skill tests in golf, soccer, swimming, tennis, and track and field with a proficiency level of 80%.

Physical education activity course.

Physical education activity course.

**COURSE DESCRIPTIONS - 132**

**Physical education activity course.**

**Overview of recreation on federal, state and local**

courage the undergraduate student in sport and fitness management to remain current with contemporary developments in the sports industry. *Prerequisite: HPR 3355.*

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 ASSM will also be discussed. *Prerequisite: HPR 4474.*

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: HPR 4474.*

Offensive and defensive techniques, purchase and care of equipment, budgeting, ethics, rules, scouting and team conditioning.

Introduction to peer education as a preventive procedure in working with campus drug and alcohol abuse. Techniques of peer teaching and peer counseling.

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

The biopsychosocial aspects of human growth and development throughout the life cycle. Emphasis is placed on understanding the individual in interaction with ma-

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

This course introduces the basic concepts and language of e-commerce. Coverage includes the planning and development of an e-commerce site, including such issues as security, customer service, payment, and marketing. The course is designed to teach students to explore and evaluate e-commerce technologies, sites, and issues. *Prerequisite: IS 4447.*

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Students successfully completing this class will have the ability to teach journalism, including how to produce magazine and newspaper layout; develop copy and/or storyboard for radio and television production; apply techniques of advertising, reporting and editing; and use current and emerging technology in the production of print and non-print journalism. *NOTE: For current or prospective advisers of high school or college newspapers and yearbooks.*

Advanced methods, techniques and performance styles for broadcast sports news and information. *Prerequisite: JRN 2201.*

Supervised journalism-related experiences focusing on gathering information, writing, editing, photography, design, online journalism, electronic journalism, broadcast journalism, advertising and/or public relations.

Discussion of and practical experience in servicing accounts and selling advertisements. May require selling ads for the Tropolitan. *Prerequisite: JRN 2220.*

An introduction to the production elements, theories and procedures of producing news broadcasts for television. Lighting, set design, preparation, operation of equipment, graphics, editing, responsibilities of those members involved in the production, electronic news gathering (ENG), operation of remote equipment and interviewing are topics discussed in this class.

Lecture, discussion, and research course designed to acquaint students with special topics in the fields of broadcast and print journalism. May be taken for a maximum of six hours.

An introduction to using advanced technologies and on-line reporting techniques in journalism and public relations.

Full-time work experience as a regular staff member of a print publication, electronic media, public relations setting, advertising office, sports information operation, etc. Student will work under the supervision of an on-the-job supervisor and report to a Troy University faculty adviser who will monitor the work experience. Student will also prepare written and oral reports. *Prerequisite: Approval of the academic adviser and director of the School of Journalism, a minimum of 75 hours of course work, and successful completion of the journalism internship workshop prior to registering for JRN 4489.*

Full-time work experience as a regular staff member of a print publication, electronic media, public relations setting, advertising office, or sports information operation. Student will work under the supervision of an on-the-job supervisor and report to a Troy University faculty adviser who will monitor the work experience. Student will also be required to prepare written and oral reports during the internship/field experience. *Prerequisites: Approval of the academic adviser and director of*

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**them.** *Prerequisites: BIO 1101, L101, CHM 1143, L143.*

A survey of the major activities of human resource management function including recruiting, selection, placement, training, compensation, employee representation, and current issues. A prerequisite for 4000-level HRM courses. *Prerequisite: MGT 3371.*

This course presents an overview of supply operations of the organization and management of the distribution process from supplier to end user. Topics covered include: materials procurement policies and procedures, supply and distribution processes, development of materials specifications and statements of work, procedures for materials sourcing on a global scale, competitive bidding, price/cost

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and promotion in organizational settings. *Prerequisite: MGT 3371.*

This course addresses the theory, practice and legal requirements in managing employee health, safety, and cultural diversity in organizational settings. *Prerequisite: MGT 3371.*

Theory and practice in human resource training and development applied to organizational settings. *Prerequisite: MGT 3371.*

Addresses theory, principles, practices, and legal requirements linking effective performance management and compensation and benefit systems in organizational settings. *Prerequisite: MGT 3371.*

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

An in-depth study of a broad range of human resource management topics. Individual investigations and reporting are emphasized in semi60.0032ol3(man)human73 and bE.0001 9(i)-cs. Indivi re-

dures and practices learned. Vehicles to deepen this

This course builds on the experience gained at the

Topics include integer and rational arithmetic, linear equations, inequalities, integer exponents, polynomials and factoring, rational expression. *Prerequisite:* Placement or a grade of C or better in MTH 096. *Note:* This course is for institutional credit

An examination of some of the major topics encountered in the teaching of elementary mathematics with emphasis on number theory, order of operations, definitions of and operations with rational and irrational numbers, estimation, definitions and algorithms of the four operations, numeration systems, bases other than ten, and problem solving.

*Prerequisite: MTH 1110 or 1112. Note: Credit will not count toward any major or minor in mathematics.*

An examination of some of the major topics encountered in the teaching of elementary school geometry with emphasis on measurement, area, volume, congruence, polygons, circles, constructions, motion geometry, polyhedra, and similarity.

*Prerequisite: MTH 1110 or 1112. Note: Credit*

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

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.*

**Study of fundamental characteristics of tonal music.** *Prerequisite: Grade of C in MUS 1100 or acceptable score on placement test. Students must take placement test before enrolling in this sequence. Co-requisites for music majors: MUS 1105 and 1107.*

**Study of modulation, secondary dominants, seventh chord resolution, two- and three-part forms, and**

Continuation of improvisation techniques. *Prerequisite: MUS 1108.*

An introduction to practices and inter-relationships of the music industry, such as retail, recording, distribution, legal aspects, publishing media and employment.

History of jazz and pop styles from 1900 to the present. Analysis of harmonic principles and common practices of each major period.

Evolution of music, stylistic characteristics of major movements and their relationship to literary, artistic and social trends. This course includes the pre-Christian, Romanesque, Gothic and Renaissance periods. *Prerequisite: MUS 1103.*

Includes composers, music literature, style characteristics and societal influences of the Baroque, Classic, Romantic and Post-Romantic periods. *Prerequisite: MUS 1103.*

Composers and musical works from Impressionism through the late 20th century, and the non-musical events that influenced them. Additional focus on world music. *Prerequisite: MUS 1103.*

Study of the applications of the microcomputer to music teaching and to the management, planning, and record-keeping tasks of the music educator.

Basic conducting techniques for instrumental and choral groups. Includes score study, rehearsal techniques and interpretation of various styles. *Prerequisite: MUS 1103.*

This course provides a broad foundation in all aspects of assessment as it is applied to the P-12 music and art classroom, from learning theory to practical application of assessment techniques, data management, critical thinking, progress reporting and portfolio building. Assessment task design in the artistic response modes is covered, and a series of assessments that can be implemented in the music/art classroom are developed. *Prerequisite: Admission to TEP.*

Group instruction in techniques of playing and teaching brass instruments.

Introduction to each of the principal woodwind instruments, emphasizing teaching techniques suitable for band classes.

Group instruction in playing and teaching the principal pitched and non-pitched percussion instruments.

Group instruction in techniques of playing and teaching stringed instruments.

Introduction to the use of the singing voice for non-voice principals in music education.

Basic introduction to guitar chording and accompanying songs in the classroom or in informal settings.

Basic skills and methods of presentation and evaluation for music in grades P-67u0 techniques suit-@tionsd-(cv



ments of patients through the life span. Provides opportunities for students to develop health assessment skills by performing health assessments of essentially well individuals at various levels through the life span. Includes communication of findings. *Prerequisites: Admission to the ASN Program, ENG 1101, BIO 3347, L347, MTH 1112, PSY 2200. Prerequisite or corequisites: BIO 3348, L348.*

Builds on the concept of human-environment interaction throughout the life span. Focuses on the use of the nursing process to explore adaptive strategies of individuals to common and altered health states. *Prerequisites: NSG 1130, 1131, 1135, 1151, 2213, BIO 3348, L348, PSY 3300, and TROY 1101. Co-requisites: NSG 1141 or 1110.*

Focuses on the role of the registered nurse in application of the nursing process to assist individuals in adapting to common and altered health states. *Prerequisites: NSG 1130, 1131, 1151, 1135, 2213, BIO 3348, L348, PSY 3300 and TROY 1101. Co-requisites: NSG 1140.*

A practical approach to using mathematical computations in health-related situations. Focuses on mathematics computations as applied in selected health care settings. Mastery of the use of different systems of measurement will be a priority. Includes an exam on computation of dosages and solutions, requiring completion with 85% accuracy. *Prerequisites: Admission to the ASN Program, ENG 1101, MTH 1112, PSY 2200, BIO 3347, L347.*

Focuses on the general classification of drugs, pharmacological actions, clinical usage, methods of administration, usual dosage, side effects, contraindications, toxic reactions, and related nursing implications. *Prerequisites: NSG 1140, NSG 1141 or 1110, and BIO 3372, L372.*

Introduces the concept of nutrition and its importance to health throughout the life span. Focuses on  
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## COURSE DESCRIPTIONS - 152

2202, 2253, 2256, 2266, 2282, 2283. *Co-requisite:* NSG 2280.

Focuses on the adaptive responses of older adults with multi-system stressors within the human environment interactive system. Emphasizes the inter-relatedness of internal and external dimensions. Discusses the use of the nursing process to maintain or improve quality of life for older adults. *Prerequisites:* NSG 1140, NSG 1141 or 1110, NSG 2271, NSG 2272, BIO 3372, L372. *Co-requisite:* NSG 2283.

Focuses on the role of the registered nurse in the application of the nursing process to assist older adults with multi-system stressors in a variety of settings. *Prerequisites:* NSG 1140, NSG 1141 or 1110, NSG 2271, NSG 2272, BIO 3372, L372. *Co-requisite:* NSG 2282.

Provides opportunity for exploration of individual health values, beliefs, and behaviors. Examines impact of exercise, nutrition, and stress on health. Explores beliefs of time management, relaxation, and play in promoting and maintaining health. Open to all majors.

Develops the use of Latin and Greek prefixes, root words, and suffixes to understand medical terminology. Open to all majors.

Provides the learner with cognitive and psychomotor skills to act in emergency situations. Topics include CPR, patient head-to-toe evaluation, bleeding and shock, internal and external body injuries, splinting, poisons, bites, burns, and drownings. May audit for recertification. Open to all majors.

Provides a foundation for using computer technology in learning; addresses digital communication, resources and research. General topics include communication through electronic mail and course discussion using the World Wide Web as an information tool, online scholarly research, and digital presentations. Course focus is the application of technology skills in learning. Open to all majors.

Calculations of medication dosages including conversions from one measuring system to another, symbols used in medication administration, and arithmetic computations. *Prerequisite:* Admission to BSN Program or permission of instructor.

A study of the nutrients, their utilization in the body, and their importance in the health of individuals throughout the life cycle. Examines dietary patterns of various cultural, ethnic, and religious groups. Explores food safety and nutrition research. Open to all majors.

Examines developmental theories and internal and external dimensions of growth and development. Emphasizes tasks, stressors, common health alterations, and anticipatory guidance specific to developmental stages throughout the life span. Open to all majors.

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

Provides a foundation for the study of information and its utilization through computer technology; encompasses access, dissemination, and management of health science information and Internet communication. General topics include communication through electronic mail, using the World Wide Web as an information tool, online scholarly research, and digital presentations and publishing. Course focus is the application of technology skills in health science fields. Open to all majors. *Prerequisite:* Sophomore standing.

Elementary-level instruction in Spanish language and culture, all oriented to the practice of medicine with Spanish-speaking patients. No prior knowledge of Spanish is required. Students develop basic listening, speaking, reading and writing skills to successfully perform linguistic tasks allowing them to communicate in everyday situations (e.g. greeting, narrating present and past events, describing, ordering, comparing and contrasting). *Prerequisite:* Permission of instructor.

Provides a psychological, physiological and sociological knowledge base for interacting with the aging client. Identifies senescence and alterations associated with the aging process. Examines the role of the older person within the human environment interactive system. Open to all majors.

Acquaints the student with the historical aspects of pharmacology, pharmacological terms, standards and controls, characteristics of various drug classi-

3348, and L348. *Prerequisite or co-requisite: NSG 3325/3326.*

**Focuses on the functions of the registered nurse in the peri-operative setting. *Prerequisites: NSG 3325, 3326.***

**Focuses on clinical experience for preparation for the role of the registered nurse for meeting the emergency preventive and restorative health needs of patients in hospital operating rooms and outpatient surgery centers. *Prerequisites: NSG 3325, 3326.***

**Introduces students to the principles, values and standards implicit in the profession of nursing. Explores past, present and emerging roles of professional nurses. Presents a practical approach to the development of critical thinking, testing and therapeutic communication skills. *Prerequisite: Admission to BSN Program or permission of instructor.***

**Focuses on the assessment phase of the nursing process as a means of collecting data for use in making nursing decisions. Emphasizes acquisition**

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Provides theoretical foundation for the nursing care of children. Examines the relationship between growth and development and the adaptive responses of children within the human-environment interactive system. Emphasizes the nurse's role in

and group responses to complex, multi-system stressors across the life span. *Prerequisites: Successful completion of all nursing courses in semesters I, II, and III of the BSN clinical nursing sequence. Co-requisite: NSG 4414.*

Provides clinical learning opportunities for students to examine individual and group responses to complex, multi-system stressors, within the human-environment interactive system. Emphasizes use of the nursing process in diagnosing and treating individual and group responses to complex, multi-system stressors across the life span. *Prerequisites: Successful completion of all nursing courses in semesters I, II and III of the BSN clinical nursing sequence. Co-requisite: NSG 4413.*

Provides the theoretical foundation for implementation of the leadership/management role of the professional nurse. Explores leadership/management theories and principles and the nature of organizations. Emphasizes strategies for utilizing leadership/management skills in various dimensions of the human-environment interactive system. *Prerequisites: Successful completion of all 3300-level nursing courses.*

Explores past, present, and emerging roles of professional nurses and examines internal and external dimensions affecting the nursing profession. *Prerequisites: Successful completion of all 3300 level nursing courses.*

Explores the steps in the research process and the legal and ethical considerations in the conduct of nursing research. Examines variation in research designs, types of measurement tools, validity, and reliability. The course concludes with application of existing research to nursing practice. *Prerequisite: Successful completion of all nursing courses in semesters I and II of the BSN clinical nursing sequence.*

Facilitates transition into the nurse generalist role by providing opportunities for students to refine nursing practice and leadership/management skills and develop more in-depth knowledge in a selected clinical area under the guidance of an approved preceptor. *Prerequisites: Successful completion of 3300 level nursing courses.*

Examines individuals and group responses to complex, multi-system stressors within the human environment. Explores complex multi-system processes. Emphasizes the nurse's role in diagnosing and treating individuals and groups in complex, multi-system stressors in acute care environments. *Prerequisites: Successful completion of all general studies requirements. NSG 3370, NSG 3309, NSG 3310, NSG 4405, NSG 4406, and NSG 4407. Co-requisite: NSG 4431.*

Provides clinical learning opportunities for students to examine individual and group responses to complex, multi-system disease processes. Emphasizes diagnosing and treating individuals and groups in a variety of settings. *Prerequisites: Successful completion of all general studies requirements, NSG 3370, NSG 3309, NSG 3310, NSG 4405, 4406, and 4407. Co-requisite: NSG 4430.*

Additional information is indexed under Academic Regulations. *Prerequisite: Permission of instructor. Also see index for "Independent Study and Research."*

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Major Classical sources of political thought and the application of these sources to contemporary political issues.

Brief history of philosophical ideas and the basics of Aristotelian logic.

An introduction to basic ethics and to contemporary ethical issues.

Survey of philosophical ideas from the ancient Greeks through the 20th century.

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An introduction to the laws of mechanics and thermodynamics. *Prerequisite: MTH 1114 or 1115. Co-requisite: PHY L252.*

Laboratory work emphasizes basic principles of mechanics and thermodynamics, the use of measuring instruments, and the interpretation of data. *Co-requisite: PHY 2252.*

An introduction to the laws of optics, electricity and magnetism. *Prerequisite: PHY 2252, L252. Co-requisite: PHY L253.*

Laboratory work emphasizes basic principles of electricity, magnetism and optics, the use of measuring instruments, and the interpretation of data. *Co-requisite: PHY 2253.*

Principles and laws of mechanics and thermodynamics, utilizing the methods of calculus. *Prerequisite: MTH 1125. Co-requisite: PHY L262.*

Laboratory work emphasizes basic principles of thermodynamics and mechanics, the use of measuring instruments, and the interpretation of data. *Co-requisite: PHY 2262.*

Principles of electricity, magnetism and optics, utilizing the methods of calculus. *Prerequisite: PHY 2262, L262. Co-requisite: PHY L263.*

Laboratory work emphasizes basic principles of electricity, magnetism and optics, the use of measuring instruments, and the interpretation of data. *Co-requisite: PHY 2263.*

Special relativity, quantum mechanics, and many electron systems. *Prerequisites: MTH 1125 and PHY 2253, L253 or PHY 2263, L263. Co-requisite: PHY L410.*

Selected experiments in modern physics. *Co-requisite: PHY 4410.*

Foundations of statistical physics, solid state physics, nuclear physics, elementary particles, astrophysics, and cosmology. *Prerequisite: PHY 4410*

Kinematics and dynamics of particles and systems of particles. *Prerequisite: MTH 2227 and PHY 2253, L253 or PHY 2263, L263.*

Vector fields, dielectric and magnetic media, fields in conductors, electric and magnetic circuit elements. Maxwell's equations and boundary condition problems in one, two and three dimensions. *Prerequisite: MTH 2227 and PHY 2253, L253 or PHY 2263, L263.*

The principles of geometrical and physical optics. Image formation, refraction, diffraction, origin of spectra, polarized light, and optical activity. *Prerequisite: PHY 2253 and L253 or PHY 2263 and L263. Co-requisite: PHY L459.*

Selected experiments in geometric and physical optics. Laboratory work emphasizes the basic principles of optics, the use of measuring instruments, and the interpretation of data. *Co-requisite: PHY 4459.*

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

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

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

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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.

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

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

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

A study of the period 1946 to 1975 in Indochina with emphasis on the American involvement during and after the French colonial period, escalating involvement of the Kennedy and Johnson administrations, and Vietnamization and withdrawal under President Nixon. *Prerequisites: His 1111 and 1112.*

An examination of selected advanced sources of classical and modern political theory. Theoretical perspectives, which are prominent in contemporary political science, are investigated.

An analysis of the American Presidency in the context of the Constitution, American political processes, national security, public opinion, and other branches of American government.

An analysis of the structure and dynamics of the U.S. Congress in the context of its relationships to the Constitution, the presidency, the judiciary, political processes and subordinate levels of government.

An analysis of the American federal judiciary in the context of its relationships to the Constitution, American political processes, the legislative and executive branches, state governments, and public opinion.

This course examines key topics in U.S. politics, specifically looking at national problems, actors and proposed solutions.

This course provides a comprehensive investigation of thinking about the relationship of both state and non-state actors in the international arena. It offers a framework for the further analysis of the discipline of International Relations including the principal schools of IR theory, the historical development of the contemporary international system, foreign policies of states, the search for state security, and the economic relationships between states within a global political context.

This course examines recent areas of research in political theory, including current issues of debate on the state, democratic theory, liberalism, conservatism, and feminism.

An investigation of political processes and organization at the state and local level in the United States.

An analysis of the reciprocal effects of geography and political organization on the behavior of states, including boundaries, national resources, spatial strategies, and maritime power.

An examination of the interrelationships between international politics and economics; states and markets, trade, foreign investment, international monetary affairs, foreign aid, state development strategies, and globalization.

This course provides a detailed examination of patterns of international conflict and methods em-

ployed to manage them: bases, emergence, escalation, de-escalation, negotiation, mediation, termination, and consequences. Specific episodes of international conflict will be investigated.

A survey of the legal, political, and methodological problems in constitutional law.

An introduction to the historical, institutional, and political context of the profession; current trends and issues; and the role of public administration in the larger governmental system.

An introduction to the processes by which American public policy is formulated, implemented, and evaluated and to the roles of policy analysts in solving various public problems.

A study of the factors, forces and functions in the making of American foreign policy from the 1760s to the end of World War I.

This course examines the foreign policy processes of the United States: historical traditions, political

This course examines th

A survey of the basic principles and functions of

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

Characteristics of the learner and the teaching-learning process. Theories of learning, instruction, and motivation, and their application to students in grades P-12.

The study of mental disorders emphasizing their etiology, classification and amelioration as described in the current classification system of the American Psychiatric Association.

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.*

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.*

An introduction to the design, analysis, and interpretation of behavioral research, including strategies for reviewing scientific literature and organizing a research report. *Prerequisite: PSY 3301.*

The study of women's experience and gender issues in the context of psychological theory and research.

The development of children from conception to puberty. Includes physical, cognitive, perceptual, language, social and emotional development.

A study of theories, research, etiology, assessment and diagnosis of mental disorders first seen in childhood or adolescence as defined by the current edition of the *Diagnostic and Statistical Manual of Mental Disorders*. Includes such disorders as ADHD, conduct problems, anxiety, mood, mental retardation, and autism.

Adolescents from puberty to early adulthood. Includes physical, cognitive, social, emotional, and personality development in cultural context.

This course studies the science that connects behavior to health, including psychological processes and the relationship between health and human behavior.

An in-depth study of violence in families, including spousal abuse, child abuse, elder abuse, relationship dynamics, protection services, treatment programs, legal defense strategies, and current legislation. *Prerequisite: junior standing or above. NOTE: May be taken for psychology or sociology credit, but not both.*

Introduction to learning and behavior in human and nonhuman animals, including fundamental principles and findings from laboratory investigations of classical, instrumental, cognitive, and social learning.

This course provides a study of measurement and evaluation techniques for the classroom teacher. Emphasis will be placed on the selection, evaluation, administration, scoring and interpretation of selected measures of student performance, achievement and behavior. The student will demonstrate skills in utilizing measurement data to plan appropriate learning activities for students. *Prerequisite: Admission to TEP. NOTE: May not be used to meet the requirements for the psychology major or minor.*

Critical analysis of the major theories of learning, including the works of Pavlov, Thorndike, Guthrie, Tolman, Hull, Skinner, and Mowrer.

Forensic psychology is the application of the science and profession of psychology to questions and issues relating to law and the legal system. This course will introduce students to the specialty area of forensic psychology. Particular emphasis will be on applied aspects of the field. *Prerequisite: Six semester hours of psychology.*

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.*

This course examines the development, causal mechanisms, evolutionary history, and function of the behavior of animals, including humans.

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**A theoretical and empirical analysis of social be-**

Comparative study of major developmental theories from the exogenous, endogenous, and constructivist paradigms. Includes history, structural components, contributions, criticisms, evaluation, and relevant research of each theory. *Prerequisite: Six semester hours of psychology.*

Examines evaluation issues such as criteria development, organizational assessment, process and outcome criteria, along with instructional methodologies such as fairness in training, special populations, second careers, and ethics of organizational and industrial change. *Prerequisite: Six semester hours of psychology.*

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.*

This course is designed to provide supervised research in the area of psychology. Opportunities for undergraduate research will be approved with attention to critical evaluation of research techniques, methods, and procedures. Selection of the problem must be approved by the professor under whom the study is to be conducted and the department chair or dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which study is to be undertaken. Preparation of a scholarly paper and oral defense may be required. *Prerequisite: Junior or senior standing with a minimum overall GPA of 3.0. Guided independent research may be taken only in the applicant's major or minor field. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."*

This course is designed to provide supervised research in the area of psychology. Opportunities for undergraduate research will be approved with attention to critical evaluation of research techniques, methods, and procedures. Selection of the problem must be approved by the professor under whom the study is to be conducted and the department chair or dean. A written request is to be submitted to the department chair at least two weeks in advance of the term in which study is to be undertaken. Preparation of a scholarly paper and oral defense may be required. *Prerequisite: Junior or senior standing with a minimum overall GPA of 3.0. Guided independent research may be taken only in the applicant's major or minor field. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."*



techniques, methods of doing job surveys and ways of classifying information. *Prerequisite: HS 2230 or permission of instructor.*

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

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

Examines specific physical disabilities from medical, psychological, social, and vocational points of view. Covers a number of disabling conditions including etiology, characteristics, and implications for treatment.

Course explores rehabilitation needs of persons with severe disabilities. Concepts, approaches, philosophy and ethical considerations related to independent living, supported employment, and advocacy efforts.

Treatment modalities, diagnostic techniques, intervention systems, concurrent problems, and counseling techniques with adolescents. Emphasis is upon evaluation of services, i.e., vocational, self-concepts, academic, psychotherapy, peer relations, group counseling, family relations, and life skill development.

Preparation for RHB 4420.

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

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

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Basic chemistry and physics for non-science majors. *Co-requisite: SCIL233. NOTE: Credit does not count toward a major in any science curriculum.*

Laboratory experiments in basic chemistry and physics. *Co-requisite: SCI 2233.*

Basic astronomy and geology for non-science majors. *Co-requisite: SCIL234. NOTE: Credit does not count toward any major in the sciences.*

Laboratory experiments in basic astronomy and geology. *Co-requisite: SCI 2234.*

Constructive and destructive processes which alter the earth. *Co-requisite: SCIL335.*

utilized will include discussion, lecture, field experience, case studies, problem solving sessions, projects, and research.

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: Ad-*

Study of family, its origin, development, and problems affecting marital relations and happiness.

patterns of settlement, social processes and change in character. *Prerequisites: Twelve hours of social science.*

A course to provide students with an in-depth study of the problems of violence in families including spouse abuse, child abuse, elder abuse, and the dynamics and dangers of violent relationships. The study will examine the root causes of family violence and the devastating, multi-generational effects of violence on its victims and society. Students will study current societal responses to family violence including protection services, treatment programs, legal defense strategies, and current legislation.

Study of crime and its causes and measurements. Topics include various explanations of criminal behavior, typology of crime, criminal justice system, and social relations to crime.

An investigation of a major sub-discipline of anthropology using primary readings from its founders and contemporary ethnographic research while using a social anthropological approach.

Sociological examination of global social changes precipitated by the demographic phenomenon of the aging of U. S. society and other societies. Addresses the heterogeneity of the older population, their locations, perceptions, and constraints. Issues such as housing, transportation, health care, and death and dying are explored.

An examination of the cultural and social components of sexuality including current perspectives on sexuality, sex research and theory, cross-cultural perspectives and sexual diversity, gender issues, sexual relationships, sexual orientations, pregnancy and parenthood, sexually transmitted diseases, sexual victimization, sexuality across the life span, and recent social changes affecting sexuality in society.

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

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

A study of rural society, its organization, agencies, institutions, population trends and composition,

other social institutions and organizations. *Prerequisite: Twelve hours of social science.*

A history and analysis of complex organizations from early to modern times.

Social analysis of human history from bands to modern societies. *Prerequisite: Fifteen hours of social science.*

Provides an overview of using the Internet for social science research and practice. *Prerequisites: Nine hours of social science.*

A study of the links between logic and emotions. *Prerequisite: Nine hours of social science.*

A survey of the aged in America, with emphasis on the psychosocial aspects of aging.

The sociological perspective applied to medicine. Topics include changing ideas of disease causation, the role of practitioners and patients, the institutional setting, differential delivery of health services, differential patterns of morbidity and mortality, and the politics of health.

Applications of skills and knowledge of sociology in government agency, foundation, public service institution or similar situation under the supervision of a faculty member. *Prerequisite: Approval of the student's academic adviser and department chair.*

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

Supervised study through field and laboratory projects, guided readings, creative endeavors or achievement of specific skills. *Prerequisites: Junior or senior standing, with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chair or dean. A written re-*

*quest is to be submitted to the department chair at least two weeks in advance of the term in which the study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Application forms are available in the office of University Records. Guided independent research may be taken only in the applicant's major or minor field. Also see index for "Independent Study and Research."*

Designed as a vehicle for the exploration of topics of current interest within the major discipline of sociology.

This course presents an overview of the social, emotional, physical, and learning characteristics of children and youth with moderate and severe disabilities. Emphasis is placed on information regarding the definition, prevalence, and etiology of moderate and severe disabilities as well as information pertaining to the classification, assessment, placement, instruction, and programming needs and services for individuals with moderate and severe disabilities. *Prerequisite: Admission to TEP.*

This course will focus on organizational procedures, universal design of curriculum, .00196(curriTf0 -TJT0.0006a

the design of a circle of care for students with complex needs. *Prerequisite: Admission to TEP.*

This course will provide an overview of computer-based technologies as they relate to the teaching and learning of all students, as well as the use of assistive technology to facilitate the successful integration of individuals with disabilities. Selection, modifications, and classroom use of technologies to improve or bypass physical, sensory, communicative, learning, and social limitations will be explored. *Prerequisite: Admission to TEP.*

This course is oriented toward identifying exceptional students and providing appropriate learning experiences in the classroom setting. This course is a survey of the nature and needs of exceptional children and an introduction to their educational programs.

The purpose of this course is to provide students with a comprehensive study of assessment of the exceptional student. This course emphasizes the underlying concepts of tests and measurement, formal and informal assessment, test administration, the interpretation and utilization of test information for identification and eligibility, and the interpretation and utilization of diagnostic results in educational intervention. *Prerequisite: Admission to TEP.*

Communication Theory (3-3) y-bapptempor0.0423(rh Tw4Stud)7.Tc0 of thilding and e  
 Communication Theor(2-2)

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Participation in a program of competitive public speaking and oral interpretation or related activities.

Study of the principles and practices basic to all areas of oral communication.

Study and application of advanced techniques of oral communication for those who show unusual presence or potential ability in public speaking. Note: Admission to the class will be determined on the basis of the instructor's evaluation of the student's basic oral communication skills. *Prerequisite: Advanced placement or SPH 2241.*

Study and application of the principles and practices basic to all areas of oral communication. As part of the university's Honors Program, the course is designed to achieve the student's leadership objectives through improved verbal and non-verbal communication skills by means of a focus on one substantive area of interest.

Study of individual and group practice in the effective use and control of the mechanics of oral delivery with a focus on the "professional dialect," the general American dialect and/or the standard dialect. Includes use of the International Phonetic Alphabet.

Study of the nature of theory-building and communication theory, and of the major classifications of contemporary communication theories. *Prerequisite: SPH 2241 or permission of the instructor.*

Study of the principles and practices of professional and personal interviewing, with an emphasis on oral communication and related topics such as resume writing.

Study of the history and rhetorical criticism of major American speakers and their speeches from the Colonial to the Contemporary periods, with references to their biographical, intellectual, political y8bicpractm-

Reinforcement of grammatical skills, reading of simple Spanish prose and poetry, composition and conversation. *Prerequisite: SPN 2241 or equivalent.*

Advanced-level reading, intensive work on composition, comprehensive treatment of Spanish phonetics. *Prerequisite: SPN 2242 or equivalent.*

Advanced-level reading, intensive work on aural comprehension and practical conversation facility, continued development of composition skills. *Prerequisite: SPN 2242 or equivalent.*

An in-depth presentation of Hispanic culture combining lectures, readings, films, audiotapes, discussions and intensive language practice on the Troy campus with on-site visit to an Hispanic environment. *Prerequisite: Permission of the instructor.*

An in-depth presentation of Hispanic culture combining lectures, readings, films, audiotapes, discussions and intensive language practice on the Troy campus with on-site visit to an Hispanic environment. *Prerequisite: Permission of the instructor.*

In-depth study of the works of a selected major author, period or genre in the literature of Spain or Spanish America. *Prerequisite: SPN 2242 or equivalent. May be repeated for credit.*

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

Additional information is indexed under Guided Independent Research and Study.

Additional information is indexed under Guided Independent Research and Study.

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.*

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.

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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.*

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 2200.*

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

Child welfare services from both the public and private sectors of social work practice will be assessed, emphasizing the availability and effective-

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values, and to develop goals. It also serves to assist non-traditional students considering a career change.

The primary purpose of this course is to teach students the skills needed to succeed in college. Structured for freshmen and sophomores, the skills taught will also benefit returning adult learners and any student having academic difficulties.

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