ACT 4497 Auditing (3)

Auditing theory as contained in official pronouncements. Emphasis will be placed on material required for the CPA exam as it relates to professional ethics, audit engagement, internal control, audit sampling, evidence gathering and auditors' reports. Accounting majors must complete this course with a grade of C or better. Prerequisite: ACT 3392.

ACT 4498 Fraud Examination—Advanced Auditing (3)

Auditing theory and procedures as applied to fraud prevention, detection and investigation. Accounting majors must complete this course with a grade of C or better. Accounting majors must complete this

ART 3355 Graphic Design History (3-3)
Survey of the history of graphic design from prehistoric visual communications to contemporary global issues.

ART 3361 Integrating Art into the Curriculum (3-3)
Critical and experiential investigation of approaches for integrating visual art into the elementary curriculum.Prerequisite: EDU 3310 and PSY 3303.

ART 3375 Special Topics in Art/Design (3-3)

ences in officer-type activities thus giving students the opportunity to apply leadership and management principles.

AS 3313 Air Force Leadership Studies II (3)
The second of two courses that study leadership and quality management fundamentals, professional knowledge, Air Force doctrine, leadership

proficiencies that were learned in AT 2201 and skills introduced in AT 2202. Prerequisite: Acceptance into ATEP (first year status), AT 2201.

AT 3301 Clinical Experiences in Athletic Training III (2)
Places the entry-level athletic training student in a variety of clinical settings including but not limited to college/university, general medical, and clinic/outreach. Laboratory and clinical experiences in AT 3301 will consist of basic clinical skills using a hands-on-approach application of competencies and proficiencies that were learned in previous clinical experience courses and skills introduced in AT 3301. Prerequisite: Acceptance into ATEP, AT 2202

AT 3302 Clinical Experiences in Athletic Training IV (2)
Places the entry-level athletic training student in a variety of clinical settings including but not limited to college/university, general medical, and clinic/outreach. Laboratory and clinical experiences in AT 3302 will consist of basic clinical skills using a hands-on-approach application of competencies and proficiencies that were learned in previous clinical experiences and skills introduced in AT 3302. Prerequisite: Acceptance into ATEP, AT 3301

AT 3360 Principles of Drug Therapy for Athletic Trainers (2)
Acquaints the entry-level athletic training student with the therapeutic medications and the governing regulations most often used in the treatment of injuries and illnesses of athletes and the physically active population. Prerequisites: CHM 1142, L142, BIO 3347, L347, BIO 3348, L348; senior status.

AT 3394 Lifting Techniques for Conditioning and Rehabilitative Exercise (1)
Students will gain knowledge of spotting techniques, safety techniques, exercises, periodization and development of strength and conditioning programs on the physically active. Prerequisite: AT 4447.

AT 3395 Care and Prevention of Athletic Injuries and Illnesses I (3)
Acquaints the entry-level athletic training student with athletic training educational competencies related to risk management, injury prevention, assessment and evaluation, psycho-social intervention and referral and health care administration. Prerequisite: acceptance into ATEP.

AT L395 Care and Prevention of Athletic Injuries and Illnesses Lab (1)
Acquaints the entry-level athletic training student with athletic training educational competencies in the clinical proficiencies, risk management, injury prevention, assessment and evaluation, psychosocial intervention and referral, and health care administration. Prerequisite: Acceptance into ATEP.

AT 3396 Evaluation of Athletic Injuries and Illnesses I (3)
Acquaints the entry-level athletic training student with athletic training educational competencies as they relate to acute care of injuries and illnesses to the lower extremity of the human body. Prerequisite: Acceptance into ATEP.

AT L396 Evaluation of Athletic Injuries and Illnesses I Lab (1)
Acquaints the entry-level athletic training student with athletic training educational competencies in the clinical proficiencies of injury prevention, assessment and evaluation, and acute care of injuries and illnesses as they relate to the lower extremity. Co-requisite: AT 3396.

AT 3397 Evaluation of Athletic Injuries and Illnesses II (3-3)
Acquaints the entry-level athletic training student with athletic training educational competencies as they relate to injury prevention, assessment and evaluation, and acute care of injuries and illnesses to the upper extremity. Prerequisites: AT 3396, L396.

AT L397 Evaluation of Athletic Injuries and Illnesses II Lab (1)
Acquaints the entry-level athletic training student with the knowledge of athletic training and educational competencies in the clinical proficiencies of injury prevention, assessment and evaluation, acute care of injuries and illnesses to the upper extremity. Prerequisites: AT 3396, L396. Co-requisite: AT 3397.

AT 3398 Organization and Administration for Athletic Trainers (2)
Students are introduced to management techniques, professional practice, insurance and health care administration that are encountered in athletic training. Prerequisite: AT 3397/L397

AT 3399 General Medical Conditions Seminar (1)
A specialized course of general medical conditions designed for entry-level athletic training students with lectures made by various health professionals focusing on pathology and pharmacology.

AT 4401 Clinical Experiences in Athletic Training V (3)
Places the entry level athletic training student in a variety of clinical settings. Clinical Experience will apply clinical skills learned in all previous clinical courses in addition to the advancement and progression of competencies and proficiencies learned

AT 3399 hle Field 5.4(al34 Tions2 Seminar (1))6.5(

AT 4447 Therapeutic Modalities (3)
Acquaints the entry-level athletic training student with athletic training educational competencies as they relate to the use of therapeutic modalities. Prerequisites: AT 3397, L397.

AT L447 Therapeutic Modalities Lab (1)
Lab accompanying AT 4447. Students will learn psychomotor skills through the clinical application of therapeutic modalities on the physically active. Corequisite: AT 4447.

AT 4448 Therapeutic Exercises (3)
Acquaints the entry-level athletic training student with the knowledge of the athletic training educa-

BIO L308 Vertebrate Zoology Lab (1-3)
Taxonomy, structure, life histories, and behavior of vertebrates. Prerequisites: BIO 1101, L101. Co-requisite: BIO 3308.

BIO 3320 Genetics (3)
Principles of heredity, from basic Mendelian concepts through molecular genetics. Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143, MTH 1112 or equivalent and MTH 2210 or equivalent, or permission of chair. Co-requisite: BIO L320.

BIO L320 Genetics Lab (1-3)
Basic laboratory techniques in genetics, including the genetics of common laboratory organisms. Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143, MTH 1112 or equivalent and MTH 2210 or equivalent, or permission of chair. Co-requisite: BIO 3320.

BIO 3325 Plant Form and Function (3)
The development, structure, and function of plant tissues and organs. Primary emphasis on anatomical, morphological, and physiological features of angiosperms. Prerequisites: BIO 1101, L101. Co-requisite: BIO L325.

BIO L325 Plant Form and Function Lab (1-3)
The development, structure, and function of plant tissues and organs, with the primary emphasis on structures. Prerequisites: BIO 1101, L101. Co-requisite: BIO 3325.

BIO 3326 Plant Diversity (3)
Taxonomy, structures, reproduction, and life cycles of fungi, algae, bryophytes, and vascular plants. Prerequisites: BIO 1101, L101. Co-requisite: BIO L326.

BIO L326 Plant Diversity Lab (1-3)
Taxonomy, structures, reproduction, and life cycles of fungi, algae, bryophytes, and vascular plants. Prerequisites: BIO 1101, L101. Co-requisite: BIO 3326.

BIO 3328 Environmental Pollution and Control (3)
Sources, effects, and methods of control for air, water, land, and noise pollution. Prerequisites: BIO 2202, L202, 2229, L229, CHM 1143, L143. Co-requisite: BIO L428.

BIO L328 Environmental Pollution and Control Lab (1-3)
Field and laboratory techniques for air, water, land, and noise pollution. Prerequisites: BIO 2202,

3372, L372, CHM 3342, L342. Co-requisite: BIO 3382.

BIO 3386 Hematology (3)
The study of blood cells and blood-forming organs under normal and diseased states. Prerequisites: BIO 3320, L320, 3372, L372, CHM 3342, L342. Co-requisite: BIO L386.

BIO L386 Hematology Lab (1-3)
Cytological and instrumental analyses of blood cells and blood forming organs. Hematological analysis of normal and diseased states. Introduction to blood-banking procedures. Prerequisites: BIO 3320, L320, 3372, L372, CHM 3342, L342. Co-requisite: BIO 3386.

BIO 4402 Spring Flora (4-7)
Survey of vascular plants from different habitats in southeast Alabama. Principles of plant taxonomy, including history and systems of classification and nomenclature, the use of dichotomous keys, and general herbarium techniques. Emphasis is placed on plant identification and habitat types. Prerequisites: BIO 1101, L101, 2229, L229.

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

BIO L405 Entomology Lab (1-3)
Morphology, classification, and identification of insects. A collection is required. Prerequisites: BIO 1101, L101. Co-requisite: BIO 4405.

BIO 4410 Animal Behavior (3)
Classical and current concepts of animal behavior including individual and social behavioral patterns. Prerequisites: BIO 3320, L320. Co-requisite: BIO L410.

BIO L410 Animal Behavior Lab (1-3)

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 4478 Cell Biology (3)
Cell structure and function with the emphasis on biochemical and molecular mechanisms. Topics include cell division, movement, differentiation, and recognition. Prerequisites: BIO 3320, L320, 3372, L372, CHM 3343, L343. Co-requisite: BIO L478.

BIO L478 Cell Biology Lab (1-3)
Experimental approaches for studying cells at the biochemical and molecular levels. Prerequisites: BIO 3320, L320, 3372, L372, CHM 3343, L343. Co-requisite: BIO 4478.

BIO 4479 Environmental Assessment (3)
An examination of theory and practices required in performing stream environmental assessment as currently practiced by state and federal agencies in their attempt to preserve biological integrity. Sustainable management of natural resources and a systems approach to environmental problem solving will be emphasized. Topics covered include water quality, habitat assessment, indicator species used in ecological inventory with a concentration on macro invertebrate and fish assemblages, and the index of biological integrity. Prerequisites: BIO 1101, L101; 2202, L202 or 2229, L229. Co-requisite: BIO L479.

BIO L479 Environmental Assessment Lab (1-3)
Laboratory instruction and hands-on field training regarding stream environmental assessment as currently practiced by state agencies in their attempt to preserve biological integrity. Topics covered include measurement of water quality, habitat, and practice sampling techniques, with a concentration on fish and macro invertebrate assemblages. In addition, students will learn the use of the index of biological integrity using their own collections of fish assemblages. Prerequisites: BIO 1101, L101; 2202, L202 or 2229, L229. Co-requisite: BIO 4479.

BIO 4480 Histology (3)
Microscopic anatomy and function of cell types and tissues of mammalian organs. Prerequisites: BIO 1101, L101. Co-requisite: BIO L480.

BIO L480 Histology Lab (1-3)
Microscopic anatomy of cell types and tissues of mammalian organs. Prerequisites: BIO 1101, L101. Co-requisite: BIO 4480.

BIO 4481 Methods and Materials for the Secondary Teacher (3)
A survey of teaching methods and materials appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evaluation in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, teaching methods, selections organization and use of biology/science materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course. Prerequisite: Admission to TEP.

BIO 4482 Molecular Biology (3)
Fundamental principles of chromosomal organization and gene expression, with emphasis on the structure and function of nucleic acids and proteins. Prerequisites: BIO 3320, L320, 3372, L372, CHM 3343, L343. Co-requisite: BIO L482.

BIO L482 Molecular Biology Lab (1-3)
Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings. Prerequisites: BIO 3320, L320, 3372, L372, CHM 3343, L343. Co-requisite: BIO 4482.

BIO 4488-4489-4490 Internship in Biological or Environmental Science (1 to 3 credit hours per course per semester)
Supervised work experience in the biotechnology industry, medical field, a governmental agency, business or industry, public service organization, food production or food service industry, or other working environment in which a student will learn and apply pertinent professional skills. Prerequisites: Approval of the student's academic adviser and department chair.

BIO 4491-4492 Guided Independent Research (1 to 4 credit hours per course per semester)
Additional information is indexed under Guided Independent Research and Study.

BIO 4493-4494 Guided Independent Study (1 to 4 credit hours per course per semester)
Additional information is indexed under Guided Independent Research and Study.

BUSINESS COURSES (BUS)

BUS 1101 Introduction to Business (3)

BUS 3382 Business Communication (3)
Analysis and composition of business and personal communications including mechanics and content of letters and memoranda. Prerequisite: ENG 1102 or 1104.

BUS 4400-4404 Business Seminar (3)
Special topics in areas offered by the Sorrell College of Business. Prior credit and topic approval by the dean of Sorrell College of Business required. NOTE: No more than six hours of credit may be earned by seminar. Prerequisite: Approval of instructor and dean of the Sorrell College of Business.

BUS 4460 Business Consulting and Research (3)
Small business research and problem-solving with

CHM L342 Organic Chemistry I Laboratory (1 - 3)
Experimental techniques and skills for preparing, manipulating, and reacting organic molecules. Co-requisite: CHM 3342.

CHM 3343 Organic Chemistry II (3)
A continuation of CHM 3342 with emphasis on modern organic synthesis. Prerequisites: CHM 3342 and L342. Co-requisite: CHM L343.

CHM L343 Organic Chemistry II Laboratory (1 - 3)
Experimental techniques and skills for preparing, manipulating, and reacting organic molecules. Co-requisite: CHM 3343.

CHM 3350 Principles of Physical Chemistry (3)
An introduction to the principles of chemical thermodynamics, reaction kinetics and chemical equilibrium. Prerequisites: CHM 3343; PHY 2253 and PHY L253, or PHY 2263 and PHY L263. Co-requisite: CHM L350.

CHM L350 Principles of Physical Chemistry Laboratory (1-3)
Practical applications of thermochemistry, colligative properties, and reaction kinetics. Co-requisite: CHM 3350.

CHM 3352 Biochemistry (3)
This course describes the molecular basis of life and discusses the structure, function ne(c)-cr2.8(y Labora2)7.2( )-1053.4(Biot molecu)7.53.4(Biomet.7(.1(6(cu)7.5(lar b)75(lLb

CHM 4481 Methods and Materials for the Secondary Teacher (3)

A survey of teaching methods and materials appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evaluation in the public schools, collaboration with spe-

currently used in the social sciences. Prerequisite: General studies math.

CJ 3376 Application of Social Scientific Inquiry (3)
A detailed description of what social scientists do with the information they gather. Particular attention is given to descriptive and inferential statistics, the relationship between research and policy, evaluation research, and research ethics. Prerequisite: General studies math.

CJ 4415 Correctional Systems and Practices (3)
An examination of the day-to-day operations and practices in modern correctional facilities in the local, state, and federal systems.

CJ 4420 Comparative Criminal Justice (3)
A comparative examination of criminal justice systems throughout the world with specific attention given to legal and political systems, organization and methods of law enforcement, jurisprudence, correctional policies, and practices. Theoretical frameworks, models, and propositions addressing crime across various societies are also considered.

CJ 4421 Ethics in Criminal Justice (3)
An introduction to concepts of ethics and an examination of contemporary ethical issues in the field of criminal justice.

CJ 4430 Selected Topics in Criminal Justice (3)
An examination of a criminal justice topic chosen for its current or special interest and importance and that is not given in depth coverage in other courses; selection topics will vary with each course offering (although a particular topic may be offered more than once.)

CJ 4435 Grant Writing (3)
A detailed examination of how to apply to governmental and private entities for funding of various programs and projects in the field of criminal justice.

CJ 4440 Terrorism (3)
A critical examination and analysis of major issues, definitions, and controversies associated with the development of terrorism in the modern world. Historical, religious, and psychological and sociological aspects and explanations of terrorism will be covered, along with the characteristic means and methods terrorist groups employ.

CJ 4442 Criminal Investigation and Evidence (3)
A detailed examination of what is necessary to solve criminal cases and prove guilt beyond a reasonable doubt in court. Emphasis on leadership and management actions taken to enhance investigative efforts in law enforcement operation.

CJ 4445 Current Issues in Law Enforcement Operations and Administration (3)
A detailed examination of applied concepts of leadership and problem solving in law enforcement operations and administration. Special emphasis is attached to current problems surfacing in law enforcement.

CJ 4446 Current Issues in Correctional Operations and Administration (3)
A detailed examination of applied concepts of leadership and problem solving in corrections and administration. Special emphasis is attached to current problems surfacing in corrections.

CJ 4447 Current Issues in Legal Systems Operation and Administration (3)
A study of the critical issues and concepts involved in modern court administration, including the law governing the presentation of evidence in the trial of criminal cases, analysis of the role of law, and the courts in American Society.

CJ 4462 Polygraph: History and Investigative Applications (3)
An historical perspective of the polygraph and an overview of legal issues concerning clinical polygraph examinations, criminal specific examinations, and the limitations of polygraphs.

CJ 4470 Criminal Justice Issues in Homeland 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 September 11, 2001.

CJ 4472 Cyber Crime (3)
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 online and computer-related criminal conduct. The course will examine the evolution of criminal law relative to the development of new technology.

CJ 4488-4489-4490 Internship in a Criminal Justice Agency (3)
Experience in a selected criminal justice agency, working in groups or individually. Supervised application and observation of concepts, principles, skills, operation and functions of knowledge acquired by the student in previous or current course work and studies. Problems will be identified with attendant solutions in the areas of police work, the correctional agencies, or the court systems as appropriate to the student's program of study.

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

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

CJ 4499 Senior Seminar in Criminal Justice (3-3)
This is a capstone course designed to (1) help seniors integrate the knowledge gained from their other required criminal justice courses, (2) assist them in developing analytical thinking skills through focusing on selected topics using a seminar approach, and (3) support them in gaining a better understanding of the criminal justice profession and the role they may play in it.

CLASSICS COURSES (CLA)

CLA 2260 Classical Mythology (3)
Myths of the Greeks and Romans and their influence.

CLA 2290 Classical Literature in English Translation (3)

tion of an internship workshop prior to registering for the internship.

encapsulation, exceptions, multithreading, graphics, exception handling, files, and streaming. Prerequisite: CS 2255

CS 3361 Concepts of Object-Oriented Programming II (3)

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

CS 3365 Introduction to Computer Organization and Architecture (3)

Organization and operation of computer systems. Topics include hardware components of digital computers, micro-programming, memory management, interrupt organization, addressing modes, and instruction formats. Prerequisite: CS 3310

CS 3370 Nature of Programming Languages (3)

object-oriented systems. Topics include refactoring designs and design patterns, presented through the use of some object-oriented language. Prerequisite: CS 3361.

CS 4495 Special Topics in Computer Science (3)
Topics in computer science that are not included in regular course offerings. Specific contents are announced in the course schedule for a given term. Prerequisites: senior standing or consent of instructor.

DANCE COURSES (DAN)

DAN 1130 Social Dance in the 21st Century (1)
A cross-cultural survey of theories and styles of dance, their relationship to societal contexts and other art forms.

DAN 1132 Contemporary I (1)
Development of technical skills in beginning contemporary dance, including rhythmic perception and spatial awareness with introduction to aesthetic and expressive qualities that lead to performance.

DAN 1134 Ballroom Dance
An introduction to social dancing with an emphasis on American ballroom dances (foxtrot, waltz, swing) and Latin ballroom dances (cha cha, mambo, tango). Equivalent to KHP 1134.

DAN 1135 Ballet I (1)
The development of technical skills in beginning ballet, including safe and efficient alignment and clear articulation of movement vocabulary with emphasis on increased vocabulary and musicality.

DAN 1136 Jazz I (1)
The study and application of the fundamental concepts, skills, movement vocabulary, and artistic expression specific to beginning jazz dance.

DAN 1137 Tap I (1)
Progressive development of beginning to low/intermediate movement concepts, skills, vocabulary, and styles specific to tap dance.

DAN 2200 Orientation to Dance (2)
Introduction to the basic concepts and principles common to ballet, contemporary and jazz dance through studio experience, discussions and concert attendance. This is a skills class.

DAN 3340 Dance Composition and Choreography I (2)
An exploration of movement and an analytical study of the art of making dances. The course will concentrate on the four basic elements of composition: space, shape, time and energy. Prerequisite: Permission of the Department of Theatre and Dance.

DAN 3388 Dance Practicum I (1)
This course is designed to provide the student individual practical performance experience with Troy University Theatre or area or university dance productions, or choreographic opportunities that involve the students setting performance pieces on area dance companies, teams, studio classes or university theatre productions or teaching experience in area schools and/or studios.

DAN 3389 Dance Practicum II (2)
A highly individualized practical experience course designed to provide opportunities for the student in choreography, teaching, performance, production, design, or management involving a continuation of the project begun in DAN 3388 or a different project altogether. Prerequisite: DAN 3388

DAN 4400 Repertory Ensemble (1)
Designed and mandatory for auditioned members and apprentices of the Troy Dance Repertory Ensemble. Through rehearsal, performance and discussion, dancers will gain further proficiency in dance by learning choreography for performance in various dance styles. Choreography will subsequently be presented in various educational settings in surrounding areas. Prerequisite: Audition or invitation.

DAN 4489 Dance Practicum III (2)
A highly individualized practical experience course designed to provide opportunities for the student in choreography, teaching, performance, production, design or management involving a continuation of the project begun in DAN 3389 or a different project altogether. Prerequisite: DAN 3389 and permission of the Department of Theatre and Dance

DRAMATIC ARTS COURSES (DRA)

DRA 2200 Introduction to Drama (2-2)
An introduction to theatre as a 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.

DRA 2211 Theatre for Youth (1-3)
The Ensemble performs well-known children's classics for Alabama elementary-age students and others. Ensemble membership is open by audition. The stress is on improvisation. May be repeated for credit.

site: DRA 2221 and completion of the DRA 2245 rotation or permission of the instructor.

DRA 3330 Special Topics in Theatre (1-3 hours variable credit)
Examination of selected topics in theatre not included in the established curriculum. Content may be of a historical, thematic, technological, design, or specialized performance nature. May be repeated for credit.

DRA 3331 Costume Design (3-3)
A study of the theory, principles, and techniques of costume design applied to a series of theatrical projects. Prerequisite: Completion of the DRA 2245 rotation or permission of the instructor.

DRA 3344 Lighting Design (3-3)
A study of the principles of lighting design and equipment applications. Also covers drafting techniques for lighting. Prerequisite: DRA 3304 and completion of the DRA 2245 rotation or permission of the instructor.

DRA 3345 Advanced Stagecraft Lab (1-3)
A continuation of Stagecraft Lab designed for the upper level student. Prerequisites: DRA 2245 rotation or permission of instructor.

DRA 3346 Educational Assessment (3)
This course provides a study of measurement and evaluation techniques for the secondary and P-12 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.

DRA 3350 Script Analysis (2-2)
Focuses on the nature of the text, playwright's purpose, dramatic structure, and style. The course will examine how the actor, director, designer, and technician approach a play and how that understanding translates into the staging.

DRA 3352 Sound Techniques (2-2)
A study of digital and analog recording techniques, recording equipment, and application.

DRA 3354 Rendering Techniques for the Theatre (2-2)
A study and application of traditional and experimental techniques for theatrical rendering, including watercolor, markers, pastels, pencils, and other media.

DRA 4441 Oral Interpretation (2-2)
Study and application of the principles and practices of oral interpretation (reading) of literature, including individual and ensemble performance. Prerequisite: COM 2241 or permission of the instructor.

DRA 4443 Theatre History I (3-3)
Through the study of literature and dramaturgy, this course traces the history of theatre from the origins

DRA 3353 Script Analysis (3-3) Through the study of literature and dramaturgy, this course traces thy( )Tjhis

included.Prerequisites: DRA 3313, 4456, EDU 3310, admission to TEP.

DRA 4491-92 Guided Independent Research (1-3 credit hours per course)

Information is indexed under Independent Research and Study in this catalog.

DRA 4493-94 Guided Independent Study (1-3 credit hours per course)

Information is indexed under Independent Research and Study in the catalog.

DRA 4496-97 Internship (3-6 credit hours per course)

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

Prerequisite: Admission to TEP and completion of a minimum of 15 hours in the teaching field.

ECE 4454 Internship Seminar for Early Childhood Education (3)

This course provides seniors an opportunity during internship to examine broad educational issues and

given to ways in which multimedia can be used to meet the needs of the varying learning styles.

EDU 3310 The Professional Educator (3)
This course provides a broad overview of education, teaching and schools, and an orientation to the Teacher Education Program. Multiple field experiences in school settings are required as part of the course. This is a prerequisite course for most other education courses.

EDU 3360 Models of Interpretation / Transliteration (3)
Students will be introduced to various interpreting models, including the Process Model, the Cokely Model, and the Colonomos Model. Students will use the models to analyze interpretations. Self-assessment techniques will be taught and Demand-Control theory will be introduced. Prerequisite: Permission of instructor.

EDU 3362 Manual Codes for English (3)
Focuses on the communication modes typically used by deaf children in public schools. Studies involve various manual codes for English such SEE II and Conceptually Accurate Signed English (CASE), Pidgin Signed English, and the Rochester Method. Simultaneous communication skills are developed. Prerequisite: ASL 1142 or SCIP rating of Survival Plus or permission of instructor.

EDU 3364 Introduction to Educational Interpreting/ Transliterating (3)
This course surveys the field of interpreting in educational settings. The focus of the course is on an analysis of the educational environment's impact on the deaf/hard of hearing student and the myriad roles of an interpreter in these settings. Guidelines of professional conduct are presented and specialized subject vocabulary is introduced. Prerequisites: ASL 2242, EDU 2200 and 3362; or permission of instructor.

EDU 3366 Discourse Analysis I (3)
Introduces the concept of discourse analysis as it relates to ASL and English. Transcriptions and analysis of text will be the focus. Prerequisite: ASL 2242 or SCPI Intermediate Plus or permission of instructor.

EDU 3368 Interpreting in Specialized Settings (3)
An introductory course which provides an overview of the ethical considerations, specialized vocabulary and skills needed to interpret in special settings such as performing arts, conferences, legal settings, phone relay, religious and health settings. Prerequisites: EDU 2200, 3360 and 3366; or permission of instructor.

EDU 4400 Classroom Management (3)
This course is designed for all education majors. The purpose of this course is to establish a foundation of content and application relative to classroom management and discipline, emphasizing reflection, decision making, and integrated teaching/learning strategies. Methodologies utilized will include discussion, lecture, field experience, case studies, problem solving sessions, projects, and research.

EDU 4451 ASL/English Linguistics (3)
This course is designed to introduce the linguistics of ASL, including phonology, morphology, syntax and semantics. Geographical, generational, racial and gender differences are explored. English and ASL similarities and differences are highlighted. Prerequisite: ASL 2242; Advanced Level on SCPI; or permission of instructor.

EDU 4452 Discourse Analysis II (3)
Students will develop a better understanding of the broad methodological areas of discourse analysis and conversation analysis as an approach for understanding signed languages and English, particularly in the context of interpreting. Prerequisite: EDU 3366

EDU 4453 Interpreting English to ASL (3)
Theory-to-practice course in which interpreter trainees are required to analyze message input from the source language (English), process and produce an equivalent message in the target language (ASL). Auditory and cognitive processing skills are refined. Prerequisite: ASL 2242 or Advanced on the SCPI or permission of instructor.

EDU 4454 Interpreting ASL to English (3)
Theory-to-practice course in which interpreter trainees are required to analyze message input from the source language (ASL), process and produce an equivalent message in the target language (English). Auditory and cognitive processing skills are refined. Prerequisite: ASL 2242 or Advanced on the SCPI or permission of instructor.

EDU 4455 Transliteration (3)
Focuses on expressive and receptive transliterating skill development in English and manual Codes for English with attention to setting and register. Prerequisites: ASL 2242, EDU 2200 and 3362; or Advanced Level on SCPI; or permission of instructor.

EDU 4456 Advanced Voice to Sign Interpreting / Transliterating (3)
Focuses on interpreting/transliterating from spoken English to ASL or Manual Codes for English. Prerequisites: ASL 2242; Intermediate Plus level on SCPI; or permission of instructor.

EDU 4457 Advanced Sign to Voice Interpreting/ Transliterating (3)
Focuses on interpreting/transliterating from ASL or Manual Codes for English to spoken English. Students develop appropriate use of register and cross-cultural bridging techniques. Prerequisites: ASL 2242; Intermediate Plus level on SCPI; or permission of instructor.

EDU 4458 Advanced Interactive Interpreting (3)
Course focuses on consecutive and simultaneous interpreting and transliterating. Students will de-

velop skills in team interpreting in interactive settings. Prerequisites: ASL 2242, EDU 2200 and 3360; or Advanced Level on SCIP; or permission of instructor.

EDU 4462 Practicum I: Seminar and Field Experiences (3)
This is a field experience course in which interpreter trainees have the opportunity to interview, observe, interact with and shadow interpreters in public venues. Prerequisite: Completion of coursework.

EDU 4463 Practicum II: Seminar and Field Experiences (3)
This is a field experience course in which interpreter trainees have the opportunity to team interpret with credentialed interpreters. Trainees will interpret in one-on-one situations for which they are qualified. Prerequisite: EDU 4462

EDU 4465 Internship: Educational Interpreting (6)
The internship provides an opportunity for the student to perform, under supervision, a variety of activities that a regularly employed interpreter would be expected to perform in an educational setting. The interpreter-in-training is involved in assignments appropriate to his/her skill level and training. Interns receive feedback and supervision from on-site supervisors, group seminar supervisors and faculty members. Interns are assigned to an educational setting (k-12 or postsecondary) for 300 clock hours, 120 of which must be in direct interpreting service. Prerequisite: completion of coursework

EDU 4466 Internship: Community Interpreting (6)
The internship provides an opportunity for the student to perform, under supervision, a variety of activities that a regularly employed interpreter would be expected to perform 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 assignments appropriate to his/her skill level and training. Interns receive feedback and supervision from on-site supervisors, group seminar supervisors and faculty members. Interns are assigned to an agency or rehabilitation setting for 300 clock hours, 120 of which must be in direct interpreting service. Prerequisite: completion of coursework

EDU 4471 Curriculum and Instructional Delivery (3)
This course offers a survey of school curricula, organizational patterns for school systems and classrooms. It is designed for Early Childhood Education, Elementary Education, Special Education, and Middle and Secondary Education majors. Various instructional strategies, major philosophies and learning theories are examined. Prerequisite: Admission to TEP; class should be taken semester prior to internship.

EDU 4476 Internship in Elementary/K-6 Collaborative Teacher (9)
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. Prerequisite: Admission to TEP. Corequisite: ELE 4454.

EDU 4491-4492 Guided Independent Research (1-3)
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 chairperson or dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. 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 4493-4494 Guided Independent Study (1-3)
Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills. Prerequisites: junior or senior status, permission of guiding professor, approval of department chairperson and the dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."

EDU 4499 Technology Across the Curriculum (3)
This course prepares the student to use a variety of technologies in developing curriculum and planning instruction for diverse learners in grades K-6. Attention is given to the history of technology, software selection and the integration of technology into the curriculum by matching technology resources and tools to instructional needs.

ELEMENTARY EDUCATION COURSES (ELE)

ELE 3360 Teaching Social Science in the K–6 Classroom (3)
This course provides a study of the varied dimensions of instruction in social sciences. Emphasis is placed on appropriate instruction and resources, including technology for the instruction of students in grades K-6. Prerequisite: Admission to TEP.

ELE 3361 Teaching Natural Science in the K-6 Classroom (3)
This course provides a study of the varied dimensions of instruction in natural sciences. Emphasis is placed on appropriate instruction and resources, including technology for the instruction of students in grades K-6. Prerequisite: Admission to TEP.

ELE 3362 Teaching Mathematics in the K-6 Classroom (3)
This course provides a study of the varied dimensions of instruction in mathematics. Emphasis is placed on appropriate instruction and resources, including technology for the instruction of students in grades K-6. Prerequisites: Admission to TEP, completion of MTH 2251 and 2252 with a grade of C or better.

ELE 4401 Integrated Program (3)
This course is designed as a culminating course for Elementary Education students to examine the integrated nature of the ELE program. This course includes extensive laboratory experiences where students interact with diverse learners as they plan, implement, and evaluate integrated curriculum including technology and the total ELE program. Prerequisite: Admission to TEP and completion of a minimum of 15 hours in the teaching field.

ELE 4454 Internship Seminar for Elementary Education (3)
This course provides seniors an opportunity during internship to examine broad educational issues and concerns, topics on the state and local levels and those of personal interest. The scope of the course ranges from juvenile law, classroom management professionalism, professional development for teachers and other course topics. Prerequisite: Admission to TEP. Co-requisite: ELE Internship.

ELE 4474 Internship in Elementary Education (9)
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. Prerequisite: Admission to TEP. Co-requisite: ELE 4454.

ELE 4491-4492 Guided Independent Research (1-3)
Undergraduate research with attention to critical evaluation of research techniques, methods and procedures. Prerequisites: junior or senior standing with a minimum overall GPA of 3.0, permission of guiding professor, approval of department chairperson or dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. 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 4493-4494 Guided Independent Study (1-3)
Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills. Prerequisites: junior or senior status, permission of guiding professor, approval of department chairperson and the dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."

ENGLISH COURSES (ENG)

ENG 0096 Fundamentals of Grammar and Sentence Writing (3)
Developmental 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 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 6 to 8 essays), with stress on grammar, punctuation, and vocabulary development. A grade of C or better is required for credit. Must be completed within first 30 hours of enrollment. Prerequisite: Placement Testing.

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

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

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

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

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

ENG 2206 World Literature after 1660 (3)
Introduction to attitudes, philosophies, and reflections of life in world literary masterpieces from the Enlightenment to the present. Requires demonstration of acceptable writing skills. Prerequisite: ENG 1102 or equivalent

ENG 2207 Honors World Literature before 1660 (3)
A course for the superior student, focusing on representative selections of

Prerequisite: 6 semester hours of 2000-level English courses

ENG 3320 Introduction to Linguistics (3)
Overview to linguistics, the scientific study of language. The course will acquaint students with the grammatical, social, biological, and technological applications of language. Prerequisites: ENG 1101, 1102

ENG 3326 Science Fiction (3)
An exploration of the literary, social, and generic importance of science fiction. Prerequisite: 6 semester hours of 2000-level English courses

ENG 3341 Advanced Grammar (3)
Detailed study of the structural system of English grammar. Prerequisite: 6 semester hours of 2000-level English courses

ENG 3345 Technical and Professional Editing (3)
Principles and practices of editing technical and scientific documents. Overview of the editing process; defining the editor's rules and responsibilities, revising at structural and sentence levels, and addressing stylistic conventions of technical fields. Includes technical and scientific documents such as reports, proposals, and user manuals. Prerequisite: ENG 2260 or permission of instructor.

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: 6 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 the techniques and principles of creative writing in each genre. Prerequisite: 6 semester hours of 2000-level English courses; ENG 3351 or permission of instructor

ENG 3353 Advanced Creative Writing II (3)
Practice in writing poetry, short fiction, or plays for class and instructor evaluation. Prerequisite: 6 semester hours of 2000-level English courses; ENG 3351 or permission of instructor

ENG 3354 Advanced Nonfiction Writing (3)
The literature of fact. Emphasis on student writing and analysis of nonfiction forms, such as personal narrative, autobiography, lyric in prose, and New Journalism. Prerequisite: 6 semester hours of 2000-level English courses; ENG 3351 or permission of instructor

ENG 3355 Verse Writing (3)
Development of techniques in the practice of poetry, including expression through metrical pat-

ENG 4400 Selected Topics in Literature and/or Professional Writing (3)
Study of a topic of special interest and importance not covered in regularly offered courses in English. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4401 Chaucer (3)
Study of Chaucer's major poetry.

ENG 4425 Modern Novel (3)
Study of representative novels written in English in the 20th and 21st centuries. Prerequisites: 6 semester hours of 2000-level English courses

ENG 4426 Modern Poetry (3)
Study of 20th- and 21st-century poetry. Prerequisite: 6 semester hours of 2000-level English courses

ENG 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: 6 semester hours of 2000-level English courses

ENG 4428 The Age of Johnson (3)
A study of the works of Samuel Johnson and of his most important contemporaries, from about 1745 to 1798. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4430 Shakespeare I: The Tragedies (3)
Study of major and minor tragedies, with some attention to non-dramatic poetry. List of plays may vary with each offering. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4431 Shakespeare II: The Comedies (3)
Study of comedies and romances. List of plays may vary with each offering. Prerequisite: 6 semester hours of 2000-level English courses

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: 6 semester hours of 2000-level English courses

ENG 4433 Literary Criticism (3)
Study of the major literary critics and their works from classical times to the present. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4434 Romantic Period in English Literature (3)
Romantic prose and poetry with emphasis on the writings of Blake, Coleridge, Wordsworth, Byron, Keats, and Shelley. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4435 The Bible as Literature (3)
A detailed study of the literary components, composition techniques, and inclusion factors in selected works from the New and Old Testaments. Prerequisite: Six semester hours of 2200-level ENG courses.

ENG 4443 Southern Literature (3)
Study of works by writers from the American South from colonial times to the present. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4452 Medieval and Renaissance English Drama (3)
Survey of drama from the middle ages and Renaissance, excluding Shakespeare. Begins with brief study of folk and liturgical origins of drama, includes a few medieval mystery and morality plays, and features Renaissance plays by Heywood, Udall, Kyd, Marlowe, Beaumont, Fletcher, Jonson, and Webster. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4453 English Drama through the 18th Century (3)
English drama (excluding Shakespeare) from the 9th through the 18th century. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4460 Victorian Poetry (3)
A study of Victorian poetry, with emphasis upon the works of Tennyson, Browning, Arnold, and Hardy. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4461 Victorian Prose (3)
A survey of the works of major Victorian prose writers, with emphasis upon the works of Carlyle, Newman, Mill, Ruskin, Arnold, and Pater. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4465 African American Literature (3)
Study of the major African American writers from the beginning of American history to the present. Prerequisite: 6 semester hours of 2000-level English courses

ENG 4474 Internship in English/Language Arts Education (9)
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. Prerequisite: Admission to TEP. Corequisite: SED 4454.

ENG 4478 Theory and Practice of Composition: Writing and Learning Across the Curriculum (3)
A study of the methodology of teaching English composition and practice in advanced writing techniques. Prerequisites: Six semester hours of 2000-level English courses.

ENG 4481 Methods and Materials for the Secondary Teacher (3)
A survey of teaching methods and materials appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evaluation in the public schools, collaboration with special education teacher evaluation in the public

ESL 0082 Grammar I

Covers the verb *be*, simple present tense, present progressive, wh-questions, possessives, prepositions of time, simple past, past progressive, and parts of speech (nouns, adjectives, prepositions). Independent CD-based exercises on topics covered in 0083 – two hours per week.

ESL 0083 Grammar II

Covers imperatives, suggestions, there is/there are, negative questions, future, nouns, articles, and quantifiers, modals, comparatives, superlatives, and basic sentence structure (simple and compound sentences). Independent CD-based exercises on topics covered in 0084 – two hours per week.

ESL 0084 Writing I

Focus on sentence-level writing: clause types, sentence types, sentence combining, conjunctions, and mechanics (punctuation and capitalization). Provides a basic introduction to writing in English that helps students apply what they are learning in other English classes to develop their writing proficiency. Writing Lab requirement: one hour per week.

ESL 0085 Writing II

Continues with sentence-level writing; introduces students to several methods of organizing paragraphs: writing introductions, describing, listing characteristics, stating reasons and examples, and expressing opinion. Appropriate grammar and mechanics is practiced for each method. Writing Lab requirement: onr hour per week.

ESL 0086 Oral Skills I

Offers integrated language acquisition approach in listening, speaking, and pronunciation. Emphasis on language functions and meaningful exchanges in realistic and relevant situations. Intensive practice in sound production and differentiation, syllable stress, word stress, and intonation patterns. Uses language games, textbook activities, recordings, and software. Lab requirement: two hours per week.

ESL 0087 Oral Skills II

An integrated class in listening, speaking, and pronunciation. Increases listening and speaking fluency and confidence by building vocabulary and providing controlled listening and speaking practices in a safe environment. Uses language games, textbook activities, recordings, and software. Work on pronunciation. Lab requirement: two hours per week

ESL 0088 TOEFL Preparation I

Covers strategies and skills necessary for the TOEFL exam. Provides listening, structure, reading, and writing skills practice at an intermediate level. Students learn test-taking strategies, take and analyze practice exams, and work to increase vocabulary in order to prepare for the TOEFL test. Independent CD-based TOEFL exercises on topics covered in 0088: one hour per week.

ESL 0089 TOEFL Preparation II

Covers strategies and skills necessary for the TOEFL exam. Provides listening, structure, reading, and writing skills practice at an advanced level. Students learn test-taking strategies, take and analyze practice exams, and work to increase vocabulary in order to prepare for TOEFL test. Independent CD-based TOEFL exercises on topics covered in 0089: one hour per week. Course requirement: 475 on the paper-based TOEFL; 153 on the computer-based TOEFL.

Reading Lab requirement: one hour per week.

ESL 0095 Reading IV

verb / pronoun-antecedent agreement) as well as on overall organization, support, and coherence. Practice appropriate grammar (especially run-on, comma splice, fragment, subject-verb agreement errors). Writing Lab requirement: one hour per week

ESL 1108 Writing VI

Focus on essay construction. Emphasis is placed on coherence, unity, and writing well-developed and well-organized essays. Explores different rhetorical patterns (chronological order, logical division of ideas, cause-effect, comparison/contrast, etc) as means to the end in fulfilling academic writing assignments. Study of different ways to organize and present ideas for different groups of readers. Emphasis on writing as a process, with frequent group work to generate ideas and practice peer editing. Writing Lab requirement: one hour per week.

ESL 1109 Speaking V

Increases vocabulary and fluency through discussions, debates, and presentations. A comprehensive pronunciation program on CD and cassette leads students through a review of the English sound system as well as a detailed study of the finer points of pronunciation, such as rhythm, pitch, and phrasing. Class presentations are more formal and more academic and require research and other preparation. Lab requirement: one hour per week.

ESL 1110 Speaking VI

FIN 4437 Financial Institutions (3)
A comprehensive study of financial markets, institutions, instruments, etc. Prerequisite: FIN 3332.

FIN 4438 Bank Management (3)
Introduction and comprehensive overview of bank management. Topics include: organization, regulation, performance, asset management, liabilities management, credit policy, loan evaluation, global banking, bank mergers and acquisitions, etc. Prerequisite: FIN 3332.

FIN 4439 Finance Seminar (3)
Review of financial management tools and techniques to solve current problems in financial management. The focus is on problems and the case study method. Prerequisite: FIN 4432, 4436.

FIN 4440 Real Estate Finance II (3)
Second course in a sequence on real estate finance. Continuation of FIN 3336. Prerequisite: FIN 3336.

FIN 4454 Public Finance (3)
This course examines and analyses public finance from the perspective of the financial management of governmental enterprises. It examines revenues and expenditures at all levels of government, the financial management of government enterprises, and effects of public finance on business finance and personal finance. Prerequisite: ECO 2252.

FIN 4491-4492 Guided Independent Research (1-3 credit hours per course per semester.)
Additional information is indexed under Guided Independent Research and Study. Note: This course may not be substituted for any required course.

FIN 4493-4494 Guided Independent Study (1-3 credit hours per course per semester)
Additional information is indexed under Guided Independent Research and Study. Note: This course may not be substituted for any required course. Also see index for Independent Study and Research.

FIN 4495 Selected Topics in Finance (3)
Focus on finance topics of a timely nature and/or special interest. Prerequisite: Permission of instructor.

FOREIGN LANGUAGE COURSE (FLN)

FLN 3333 Seminar in World Languages (3)
A survey of the world's major language families with emphasis on the Indo-European languages and the evolution of Latin and Romance languages, coupled with intensive review

GEM 3370 Geodesy and Geodetics (3)
The study of the underlying theory necessary to understand the use of the Global Positioning Sys-

solving and presenting peak runoff solutions. A design project involving the use of large-scale topographic maps will be assigned. Co-requisite: GEM 4409.

GEO 4403 Conservation (3)
The conservation of natural and human resources with emphasis on population expansion as the major element in changing ecology.

GEO 4404 Economic Geography (3)
Spatial patterns of economic activities including production, distribution, consumption, and the environmental consequences of these activities. Prerequisite: Twelve hours of social science.

GEO 4406 Urbanism (3)
Historical, physical, economic, and societal evolution of the urban area. American metropolitan problems and implications for policy and planning. NOTE: One field trip required at student's expense. This course may be taken for sociology credit.

GEO 4408 Rural America: Past and Present (3)
A study of rural society, its organization, agencies, institutions, population trends and composition, patterns of settlement, social processes, and change in character. Prerequisite: Twelve hours of social science.

GEO 4411 Demography (3)
Population growth, stabilization, decline, and structures in the context of societal change. This course may be taken for sociology credit.

GEO 4415 North American Geography (3)
Survey of agricultural, industrial, and commercial development of Anglo-America. Covers physical and cultural environment, resource distribution, economy, and population characteristics.

GEO 4420 Web Based GIS/Spatial Data Applications (3)
The student will learn the techniques and protocols needed to develop and transmit spatial databases for 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: GEO3370

GEO 4435 Historical Geography of North America (3)
An analysis of the physical and cultural factors in the development of North America from early European settlement to the present. Prerequisite: Twelve hours of geography or history.

GEO 4485 GIS/Spatial Data Modeling (3)
This course concentrates on the various components of precision modeling of the real world or anticipated events of the real world to allow for accurate decision making. Prerequisite: ECD 3362 or permission of instructor. Corequisite: GEO L485

GEO L485 GIS/Spatial Data Modeling Laboratory (2)
The purpose of this lab is to allow the students to demonstrate their ability to collect, formulate, analyze, and draw conclusions based upon a real world modeling exercise. Prerequisite: ECD 3362 or permission of instructor. Corequisite: GEO 4485

GER 2222 Intermediate German II (3)
Emphasis on basic language skills and knowledge of German culture. Prerequisite: GER 2221 or permission of instructor.

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

GREEK COURSES (GRK)

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

GRK 1111 Introductory Greek I (3)
Introduction to the ancient Greek language with emphasis on pronunciation, basic vocabulary, fundamentals of grammar, and graded readings.

GRK 1112 Introductory Greek II (3)
Continuation of GRK 1111. Prerequisite: GRK 1111 or permission of instructor.

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."

HISTORY COURSES (HIS)

HIS 1101 Western Civilization I (3)
Survey of developments in Western history from the pre-historic era to early modern times, including classical antiquity, Middle Ages, and Renaissance and Reformation.

HIS 1102 Western Civilization II (3)
Survey of developments in Western history from modern times to the contemporary era, including the Scientific Revolution, Enlightenment, French Revolution and Napoleon, nationalism, imperialism, two world wars, and the postwar era.

HIS 1103 Honors Western Civilization I (3)
Chronological coverage same as HIS 1101. Enrollment restricted to superior students. Prerequisite: Permission of department chair.

HIS 1104 Honors Western Civilization II (3)
Chronological coverage same as HIS 1102. Enrollment restricted to superior students. Prerequisite: Permission of department chair.

HIS 1111 U.S. to 1877 (3)
Survey of American history from the colonial period through Reconstruction, including the Revolu-

HIS 3310 England since 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 permission of instructor.

HIS 3315 The Vietnam War (3)
A study of the period 1946 to 1975 in Indochina with emphasis on the American involvement during and after the French colonial period, escalating involvement of the Kennedy and Johnson administrations, and Vietnamization and withdrawal under President Nixon. Prerequisites: HIS 1111 and 1112 or permission of instructor. *May be used for political science credit.

HIS 3316 History of Alabama (3)
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.

HIS 3318 History of American Women (3)
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.

HIS 3330 Historical Archeology (3)
An examination of the historical research methods and archaeological techniques used to investigate and interpret archaeological sites dating from the prehistoric period.

HIS 3341 Medieval Europe (3)
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.

HIS 3342 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 permission of instructor.

HIS 3343 Age of Absolutism (3)
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.

HIS 3344 Age of Reason (3)
Survey of European history in the 18th century, emphasizing the cataclysmic developments in scientific, political, humanitarian, and economic thought that prepared the way for the rise of democracy in both the old and the new worlds. Prerequisites: HIS 1101 and 1102 or permission of instructor.

HIS 3352 History of Africa (3)
A survey of 19th and 20th century political, social, and cultural history of the region, including the partition of Africa by European powers and decolonization. Prerequisites: HIS 1101 and 1102 or permission of instructor.

HIS 3356 History of the Middle East (3)
Background information on Islam, the Ottoman Empire, and Western influence sets the scene for a detailed study of political, economic, and social developments since World War II. Prerequisites: HIS 1101 and 1102 or permission of instructor.

HIS 3360 Introduction to Archives: Theory and Issues (3)
This course will introduce students to the history and social value of records and archives, to the theory underlying professional archival practice, and to the application of archival theories in the digital world.

HIS 3362 Archival Methods and Practices (3)
This course will introduce students to the practical tasks performed by archivists in securing and preserving records, processing, arranging, describing, and providing access to them.

HIS 3375 Research and Methodology (3)
A course designed to acquaint students with research methods and computer skills as related to the history profession. The principal requirement is the successful completion of a formal research paper in which students will demonstrate proficiency in research, writing, and basic computer skills. NOTE: It is strongly recommended that history majors complete this course during the first term of their junior year. Prerequisite: Nine semester hours of history, including one of the freshman/sophomore-level series. (Students must receive a grade of C or better for credit toward completion of degree requirements.)

HIS 4401 French Revolution and Napoleon (3)
A study of the absolutist aristocratic France chal

HIS 440

Great Depression, rise of totalitarianism, World War II, European integration, the Cold War, and the post-Cold War era. Prerequisites: HIS 1101 and 1102 or permission of instructor.

HIS 4405 Old South (3)
An examination of the cultural, political, religious, and economic trends that shaped the colonial and antebellum South and the Civil War which ended that era. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4406 New South (3)
An examination of the political, social, racial and religious trends and policies that defined the New South. Topics include reconstruction, redemption, agrarian unrest, Jim Crow, industrialization, Progressive Movement, World War I, the Great Depression, World War II, and the Civil Rights Movement. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4411 Colonial America (3)
Study of the colonial period from European discovery to the end of the French and Indian War, with emphasis on the political, economic, and social developments that set the stage for the American Revolution. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4412 The American Revolution and the New Nation, 1763-1815 (3)
Ideas and institutions which led to American independence, the creation of the American union, and the development of a distinctive American culture in the Early National Era. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4413 Antebellum, Civil War and Reconstruction, 1815-1877 (3)
Examines nationalism, Jacksonian democracy, territorial expansion, slavery and sectional strife, and the resulting Civil War and Reconstruction. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4414 Emergence of Modern America, 1877-1919 (3)
Includes agricultural decline and crisis, industrialization and urbanization, Progressive reform era, World War I, and America as a world power. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4415 Contemporary America (3)
Includes America in the Great Depression, World War II and the Cold War, Civil Rights Movement, Johnson's Great Society, and America as a superpower. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4420 History of American Minorities (3)
Study of selected ethnic, racial, cultural, social, and religious minorities, their treatment within and their contributions to American society. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4423 American Foreign Policy to 1920 (3)
A study of the factors, forces, and functions in the making of American foreign policy from the 1760s to 1920. Prerequisites: HIS 1111 and 1112 or permission of instructor. May be used for political science credit.

HIS 4430 Civil Rights Movement (3)
Study of the origins of the Civil Rights Movement in the late nineteenth and twentieth centuries, beginnings of change in the 1930s and the World War II era, and the movement itself as defined by legal,-o

al, and s
t( )6.6(th
and sarC

HIS 4445 History of Modern Germany (3)
Survey of Germanic peoples from the Revolutions of 1848 to the present, emphasizing unification, two world wars, postwar division, and reunification. Prerequisites: HIS 1101 and 1102 or permission of instructor.

HIS 4448 The Westward Movement (3)
Study of the history of American expansionism and westward movement and its impact on political, economic, and social institutions. Prerequisites: HIS 1111 and 1112 or permission of instructor.

HIS 4450 Environmental History of the U.S. (3)
An introduction to environmental history of the

HIS 4496 Secondary Education Internship — History (9)
Additional information is indexed under The Professional Internship Program.

HIS 4498 Honors–Independent Study (1 to 3 hours–TBA)
Advanced research and study for outstanding students in their major field. Culminates in report to a departmental committee that includes invited faculty members in related fields. Prerequisite: Senior level and 3.5 overall grade point average. Permission of guiding professor and approval of department chair and the dean of arts and sciences. A written request must be submitted to the department chair at least six weeks in advance of the semester the research is to be undertaken.

HIS 4499 Internship in History (1-3)
Supervised work in an agency that can provide practical experience in the field of study. Prerequisites: Senior standing, at least 2.5 GPA, 12 hours in upper-division courses in the field, and permission of supervising instructor, department chair and/or dean.

UNIVERSITY HONORS PROGRAM COURSES (HON)

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

HON 1101 Freshman Honors Colloquium (3)
The first in a series of interdisciplinary seminars for University Honors Program candidates, combining class work with focus on the humanities, social sciences, natural sciences, attendance at campus and community events, and University Honors Program student activities. Prerequisite: admission as a candidate for University Honors Program in fall semester of the freshman or sophomore year.

HON 2200 University Honors Special Topics: Interdisciplinary I (3)
A one-semester course for students who have been accepted into the University Honors Program via the PEAK Program and completion of the requirements for candidacy. Interdisciplinary topics are determined in advance by the Honors Council and the honors director. Prerequisites: HON 1101 or permission of the honors director.

HON 3300 University Honors Special Topics: Interdisciplinary II (3)
A one-semester course for students who have been accepted into the University Honors Program. Interdisciplinary topics are determined in advance by the Honors Council and honors director Prerequisite: HON 2200 or permission of the honors director

HON 4400 University Honors Capstone Seminar in Leadership (3)
The final course in the interdisciplinary sequence of University Honors courses is focused upon the

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

Additional information is indexed under Guided Independent Research and Study.

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

Additional information is indexed under Guided Independent Research and Study.

HS 4498 Honors-Independent Study (1 to 3 credit hours per course per semester)

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

INTERDISCIPLINARY STUDIES COURSES (IDS)

IDS 2200 Crossroads: Sophomore Interdisciplinary Seminar in Creative Thinking (3)

This sen

IS 3320 Data Communication and Computer Networking (3)

JRN 1102 Writing for Mass Media (3-4)

A basic course in preparing written materials for the mass media. Prerequisites: ENG 1101 and 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 1103 Introduction to Radio and Television (3-3)

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 2201 Reporting (3-4)

Gathering, evaluating and reporting the news. Prerequisite: Completion of JRN 1102 with grade of C or better and sophomore standing. Must make at least C or better in JRN 2201 before taking another journalism course. Requires one hour per week of work on student media.

JRN 2203 Broadcast News Writing (3-4)

Gathering, evaluating, writing and performing broadcast copy. Applies news gathering techniques to the broadcast writing style, on-the-scene coverage, interviewing and announcing. Must make a C or better. Prerequisite: JRN 2201. Requires one hour per week of work at Trojan Vision-TV.

JRN 2210 Global Journalism and International Media Systems (3-3)

An examination of international and domestic mass media systems, the flow of information and technology, and issues of media ownership, access, regulations, programming and cultural differences in international communications.

JRN 2211 Editing (3-4)

ism, broadcast journalism, advertising and/or public relations.

JRN 3350 Advertising Sales (3-3)
Discussion of and practical experience in servicing accounts and selling advertisements. Marketing and

public relations setting, advertising office, or sports information operation. Student will work under the supervision of an on-the-job superviso3Pars

KHP 2223 Advanced Synchronized Swimming (1)
Physical education activity course.

KHP 2230 Rhythmic Activities for Special Populations (1)
Physical education activity course.

KHP 2238 Clog Dance II (1)
Physical education activity course.

KHP 2239 Aerobic Dance II (1)
Physical education activity course.

KHP 2240 Personal and Community Health (3)
Personal health as it applies to practices, knowledge and behavior.

KHP 2241 Intermediate Jogging (1)
Physical education activity course.

KHP 2242 Intermediate Weight Training (1)
Physical education activity course.

KHP 2250 Foundations of Health Science (1-1)
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.

KHP 2251 Foundations of Physical Education and SFM (2-2)
A study of the history and principles of health education and physical education with particular emphasis placed on present practices and trends.

KHP 2252 Methods of Teaching Dance (3)
Social, folk and square dancing, including basic rhythmic activities which can be taught in elementary, middle and high school. Equivalent to DAN 2252. Prerequisite: Permission of instructor

KHP 2260 Applied Fitness Concepts (2-2)
Personal conditioning-based course focusing on training principles, modes of exercise, training tools, performance enhancers, measurement concepts and exercise prescription.

KHP 2263 Lifeguard Training (3-3)
Organization and teaching of the fundamental skills for water safety and the prevention of drowning.

KHP 3369 Scuba (2-4)
Basic techniques of scuba diving. Prerequisite: Permission of the instructor. In addition to lab fee, a student is required to purchase mask, fins, snorkel, weight belt and weights. Students are also required to make two trips for final certification. The student will be responsible for the cost of transportation, food and lodging during the two trips.

KHP 3391 Testing and Statistical Interpretation (3-3)
Test selection, analyzing test scores and measurement as a technique of evaluation in evaluation in health education and physical education. Prerequisite: MTH 1112.

KHP 3392 Water Safety Instructor for the Handicapped (l-1)
Organization and methods of teaching swimming to adapted students. Prerequisite: A current valid WSI

KHP 4477 Theory and Techniques of Coaching Football (2-2)
Offensive and defensive techniques, purchase and care of equipment, budgeting, ethics, rules, scouting and team conditioning.

KHP 4478 Theory and Techniques of Coaching Soccer (2-2)
The development of basic skills necessary for team play, squad organization, rules, scouting procedures, term conditioning and equipment needs.

KHP 4479 Theory and Techniques of Coaching Volleyball (2-2)
Offensive and defensive techniques, purchase and care of equipment, budgeting, squad organization, rules, scouting and team conditioning.

KHP 4480 Theory and Techniques of Coaching Track and Field (2-2)
Teaching of basic fundamentals of track and field activities.

KHP 4481 Methods and Materials for the Secondary School Physical Education or Health Teacher (3-3)
Teaching methods, selection, organization and use of physical education or health materials in secondary schools. Observation and teaching experiences will be included. Prerequisite: Admission to the Teacher Education Program or permission of instructor.

KHP 4482 Theory and Techniques of Coaching Basketball (2-2)
Offensive and defensive techniques, purchase and care of equipment, budgeting, squad organization, rules, scouting and team conditioning.

KHP 4483 Theory and Techniques of Coaching Baseball (2-2)
Offensive and defensive techniques, purchase and care of equipment, budgeting, batting and field drills, rules, scouting and team conditioning.

KHP 4485 Teaching Individual and Team Sports (3-3)
Teaching methods, techniques, and officiating archery, badminton, gymnastics, soccer and volleyball. Prerequisites: KHP 3330, 3331, 3352 and admission to the Teacher Education Program or permission of instructor.

KHP 4486 Teaching Individual and Team Sports (3-3)
Teaching methods, techniques, and officiating basketball, golf, swimming, track and field, and tennis. Prerequisites: KHP 3330, 3331, 3352 and admission to the Teacher Education Program or permission of instructor.

KHP 4487 Special Topics in Exercise Performance (2-2)
An intensive study of selected topics in exercise science. Topics to be taught each term TBA. Prerequisite: KHP 4474 or permission of instructor.

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. Note: May be repeated for credit. Prerequisite: LAT 2232 or permission of instructor.

LAW COURSES (LAW)

LAW 2221 Legal Environment of Business (3)
This course is an introdu

ior or senior status, permission of guiding professor, and approval of instructor. A written request must be submitted to the instructor at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course in which a grade of D or below has been earned.

MARINE BIOLOGY COURSES (MB)

Offered at Dauphin Island Sea Lab (DISL) only

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

MANAGEMENT COURSES (MGT)

MGT 3371 Principles of Management (3)
An introduction to management functions, principles, and techniques. The course includes a discussion of planning, organizing, influencing through leadership, and control within the organization. Prerequisites: ECO 2252.

MGT 3372 Hospitality Management (3)
A survey course providing an overview of the industry, its history, problems and general operating procedures. Prerequisite: MGT 3371.

MGT 3373 Operations Management (3)
A study of how organizational processes add value

proaches to collective bargaining and labor relations. Prerequisite: MGT 3371.

MGT 4474 Business and Society (3)
Focuses on the interrelationships which exist between business organizations and the environment in which they operate. Significant relationships of business and society in the past, present, and probable future will be examined. General areas discussed include business ethics, social responsibility, and relationships with government, education, and labor unions. Prerequisite: MGT 3371.

MGT 4475 Small Business Management (3)
Detailed analysis of the creation and management of small business entities. The dynamics of operating small businesses successfully is presented. Emphasizes entrepreneurial opportunities, new venture processes, and managerial activities needed for the successful operation of small business. Prerequisite: MGT 3371.

MGT 4476 Strategic Management (3)
Capstone course for business majors. Integrates knowledge, skills, and concepts acquired in all business courses taken. Requires students to analyze various corporations, determine threats and opportunities posed by the external environment as well as the firm's strengths and weaknesses, formulate strategic plans for firms, and determine how these plans should be implemented. Prerequisites: Senior standing; completion of or concurrent enrollment in remaining business core courses.

MGT 4478 International Management (3)
A survey and analysis of topics important to successfully managing internationalized 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. Prerequisite: MGT 3371.

MGT 4479 Management Seminar (3)
Capstone course for management majors. Analysis of current problems and issues in management. Prerequisite: MGT 3371, 3373, 3375, 4472.

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

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

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

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

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

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

MGT 4491-4492 Guided Independent Research (1-3 credit hours per course per semester.)
Additional information is indexed under Guided Independent Research and Study. Note: This course may not be substituted for any required course.

MGT 4493-4494 Guided Independent Study (1-3 credit hours per course per semester)
Additional information is indexed under Guided Independent Research and Study. Note: This course may not be substituted for any required course.

MGT 4496 Selected Topics in HR (3)
An in-depth study of a broad range of human resource management topics. Individual investigations and reporting are emphasized in seminar fash-

tion and role of the Army, basic life skills pertaining to fitness and communication, and an analysis of Army values and expected ethical behavior. Co-requisite: MS 1104a.

MSL 1102 Basic Leadership (1)

This course provides students with a basic knowledge of common military skills and presents the fundamental leadership concepts and doctrine of the U.S. Army. Topics include the practice of basic skills that underlie effective problem solving, application of active listening and feedback skills, examination of factors that influence leader and group effectiveness, and an examination of the officer experience. Co-requisite: MS 1104b.

MSL 1104 Leadership Lab (1)

Leadership lab is required for Army ROTC students. The student will receive training in drill and ceremonies, field craft, individual movement techniques, squad tactics, map reading and land navigation, first aid, and use and maintenance of the M16 Rifle.

MSL 1105 Leadership Lab (1)

Leadership lab is required for Army ROTC students. The student will receive training in drill and ceremonies, field craft, individual movement techniques, squad tactics, map reading and land navigation, first aid, and use and maintenance of the M16 Rifle.

MSL 2201 Individual Leadership Studies (2)

This course develops the knowledge of self, self-confidence and individual leadership skills as well as develops problem solving and critical thinking skills and the application of communication, feedback, and conflict resolution. Emphasized areas include personal development, goal setting, communication, problem solving and decision-making, leadership, teamwork, the group process, stress management, and physical fitness. Co-requisite: MS 2204a.

MSL 2202 Leadership and Teamwork (2)

This course focuses on self-development guided by knowledge of self and group processes by focusing on challenging current beliefs, knowledge and skills. Co-requisite: MS 2204b.

MSL 2204 Leadership Lab (1)

Leadership lab is required for Army ROTC students. The students will receive training in drill, physical training, rappelling, water survival, tactics, marksmanship, night operations, and land navigation.

MSL 2205 Leadership Lab (1)

Leadership lab is required for Army ROTC students. The students will receive training in drill, physical training, rappelling, water survival, tactics, marksmanship, night operations, and land navigation.

MSL 3301 Leadership and Problem Solving (3)

This course examines the basic skills that underlie effective problem solving by analyzing the role officers played in the transition of the Army from Vietnam to the 21st Century, analysis of military missions and the planning of military operations, the features and execution of the Leadership Development Program, and the execution of squad battle drills. Co-requisite: MS 3304a.

MSL 3302 Leadership and Ethics (3)

This course probes leader responsibilities that foster an ethical command climate by developing cadet leadership competencies and applying principles and techniques of effective written and oral communication. Students are prepared for success at the ROTC National Advanced Leadership Course. Co-requisite: MS 3304b.

MSL 3304 Leadership Lab (1)

Leadership Lab is required for all Army ROTC students. The student will receive training in troop-leading procedures, mission planning, squad tactics, land navigation, individual movement techniques, water survival and rappelling.

MSL 3305 Leadership Lab (1)

Leadership Lab is required for all Army ROTC students. The student will receive training in troop-leading procedures, mission planning, squad tactics, land navigation, individual movement techniques, water survival and rappelling.

MSL 4401 Leadership and Management (3)

This course builds on the experience gained at the National Advanced Leadership Course in order to solve organizational and staff problems and discusses staff organization and functions, analysis of counseling responsibilities and methods, the principles of subordinate motivation and organizational change. Students will apply leadership and problem solving principles to a case study and or simulation. Co-requisite: MS 4404a.

MSL 4402 Officership (3)

This course is designed to explore topics relevant to Second Lieutenants entering the U.S. Army and focuses on the legal aspects of decision making leadership, analyzing Army organization from the tactical to the strategic level, assessing administrative and logistical functions, performance of platoon leader actions, and an examination of leader responsibilities that foster an ethical command climate. Co-requisite: MS 4404b.

MSL 4404 Leadership Lab (1)

Leadership lab is required for all Army ROTC students. The student will receive training in troop-leading procedures, mission planning, squad tactics, land navigation, individual movement techniques, water survival and rappelling.

MSL 4405 Leadership Lab (1)

Leadership lab is required for all Army ROTC students. The student will receive training in troop-leading procedures, mission planning, squad tactics,

land navigation, individual movement techniques, water survival and rappelling.

MEDICAL TECHNOLOGY COURSES (MT)

(Offered in hospital internship only)

MT 4400 Clinical Urinalysis (1)
The imparting of skills for performing and interpreting routine urinalyses as well as special urinalysis procedures.

MT 4401 Clinical Urinalysis Lab (1)
This lab section includes specimen handling, procedure manual, audio-visual, quality control, record keeping, and reporting system.

MT 4402 Clinical Microbiology (4)
This lecture course covers areas of bacteriology, mycology, and virology.

MT 4403 Clinical Microbiology Lab (2)
This lab teaches identification methods, isolation methods, and current clinical techniques for working with bacteria, molds, viral, and rickettsial organisms.

MT 4404 Clinical Parasitology (1)
Discussions concerning proper collection and handling of specimens for detection of parasites, techniques used to detect parasites and morphological features, and life cycles of important organisms.

MT 4405 Clinical Parasitology Lab (1)
Use of the laboratory procedures and techniques for isolation and identification of parasitic organisms.

MT 4406 Clinical Hematology (4)
Detailed studies of blood, including cell types, functions, number of cells, clotting mechanisms, coagulation disorders, platelet disorders, and other pertinent topics.

MT 4407 Clinical Hematology Lab (2)
Special studies and training involving cell counts, hemoglobin and hematocrit determinations, and other special hematology procedures.

MT 4408 Immunohematology (3)
This block involves blood banking, studies of the ABO blood group system, the Rh system, blood typing, antibody studies, and effects of transfusion.

MT 4409 Immunohematology Lab (1)
Blood banking studies and techniques. Clinical applications of procedures under direct supervision.

MT 4410 Clinical Serology (2)
Lectures emphasizing the principles and interpretations of immunological procedures. The study of the immune systems of the body. Antigen-antibody
f6udi(Cli.6(an(Cli6(tech9(ures.)]TJ -6 -1.26 TD 0 Tc 0 Tw ( )Tj /TT42(c6rl/4 TD .000Tw ( ) 23Imm2n6022 Tw [(MT 4410)7.8(

placement, or a grade of C or better in MTH 1105. Note: Credit will not count toward a major or minor in mathematics.

MTH 1114 Pre-Calculus Trigonometry (3)

This course covers trigonometric functions including definitions, identities, and trigonometric equations, applications as well as properties and graphs of trigonometric functions and their inverses. Also included are the law of sines, the law of cosines, polar coordinates, vectors, and conic sections. Prerequisite: MTH 1112 with a grade of C or better or advanced placement. Note: Credit will not count toward a major or minor in mathematics.

MTH 1115 Pre-Calculus Algebra and Trigonometry (4)

The course covers the algebra of functions, systems of equations and inequalities, quadratic inequalities, and the conic sections. Also includes the study of trigonometric and inverse trigonometric functions, trigonometric equations, vectors, complex numbers, polar coordinates, and DeMoivre's Theorem. Prerequisite: MTH 1105 with a grade of C or better, appropriate score on the mathematics placement test, or advanced placement. Note: Credit will not count toward a major or minor in mathematics.

MTH 1125 Calculus I (4)

Topics include limits of functions, derivatives of algebraic, trigonometric, exponential and logarithmic functions and their inverses and the definite

3 (os p)7.1(l)pT8.2(l4- .0a .000h3339i)6ith 8.2(d)7.(8.2(d.000 1p3339lac .000e, .02(Tc .0021 Tw [(of equa)5clud)7.4((ced pllie).000004 .(w-11.193 p),)]e).0

MTH 3325 College Geometry (3)
Axiomatic systems; incidence and separation properties of planes and space; metric and synthetic approaches; geometric inequalities; parallel postulate; area-theory; circles in a plane; models for hyperbolic and elliptic geometries; and constructions with a straightedge and compass. Prerequisite: MTH 3318 or permission of instructor.

MTH 3331 Linear Algebra (3)
Matrices, systems of equations, determinants, eigenvalues and eigenvectors. Prerequisite: MTH 1126 or permission of instructor.

MTH 3364 Vector Calculus (3)
Differentiation in several variables. Line and surface integrals. Potential theory and differential forms. Prerequisite: MTH 2227.

MTH 4412 Discrete Mathematics (3)
Topics can include counting, graph theory, partitions, principle of inclusion and exclusion, finite geometries, applications of group theory, recurrence relations, generating functions. Prerequisites: MTH 2227 and 3318.

MTH 4420 Introduction to Partial Differential Equations (3)

organization and use of mathematics materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course. Prerequisite: Admission to TEP.

MTH 4490 Senior Seminar (1-3 hours variable credit)
Individualized study of a topic in mathematics culminating in a written and oral presentation. Prerequisites: MTH 3318 and senior status.

MTH 4491/4492 Guided Independent Research (3)
Additional information is indexed under Guided Independent Research and Study.

MTH 4493-4494 Guided Independent Study (3)
Additional information is indexed under Guided Independent Research and Study.

MUSIC INDUSTRY COURSES (MUI)

MUI 3305 Music Technologies (3-3)
Study of the applications of the microcomputer to music teaching and to the management, planning, and record-keeping tasks of the music educator.

MUSIC COURSES (MUS)

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

MUS 1100 Basic Music Skills (2-3)
Focuses on the elements of music with emphasis on basic skills of music reading, orientation to the keyboard, sight-singing and dictation. NOTE: This course cannot be used in meeting degree requirements other than general electives. May not be taken concurrently with any other music theory course.

MUS 1102 Music Theory I (3-3)
Study of fundamental characteristics of tonal music. Prerequisite: Grade of C in MUS 1100 or acceptable score on placement test. Students must take placement test before enrolling in this sequence. Co-requisites for music majors: MUS 1105 and 1107.

MUS 1103 Music Theory II (3-3)
Study of modulation, secondary dominants, seventh chord resolution, two- and three-part forms, and intermediate-level analysis. Prerequisite: MUS 1102. Co-requisites for music majors: MUS 1106 and 1108.

MUS 1105 Class Piano I (1-2)
Introduction to basic keyboard musicianship and music reading skills. Focuses on beginning improvisation techniques, harmonization and beginning chorale playing.

MUS 1106 Class Piano II (1-2)
Development of intermediate-level keyboard skills including improvisational techniques, chorale playing, sight reading and transposition. Prerequisite: MUS 1105.

MUS 1107 Aural Skills I (1-2)
Beginning sight singing and rhythmic reading. Melodic, harmonic and rhythmic dictation, including intervals, chord qualities and simple/compound meters. Beginning improvisation techniques.

MUS 1108 Aural Skills II (1-2)
Intermediate level sight singing and rhythmic reading. Combined melodic and harmonic dictation, with inversions and mixed meter rhythms. Continuation of improvisation techniques. Prerequisite: MUS 1107.

MUS 1110-4428 Private Instruction (1 credit hour per semester, 1 lesson per week)

1110/2210/3310/4410	Violin
1111/2211/3311/4411	Viola
1112/2212/3312/4412	Cello
1113/2213/3313/4413	String Bass
1114/2214/3314/4414	Piano
1115/2215/3315/4415	Organ
1116/2216/3316/4416	Voice
1117/2217/3317/4417	Clarinet
1118/2218/3318/4418	Oboe

MUS 2202 Music Theory III (3-3)
Principles of 16th century counterpoint and analysis of through-composed forms. Prerequisite: MUS 1103. Co-requisite for music majors: MUS 2207.

MUS 2203 Music Theory IV (3-3)
Compositional techniques and analysis of later romantic period works. Introduction to 20th century composition and analysis. Prerequisite: MUS 2202.

MUS 2207 Aural Skills III (1-2)
Advanced sight singing and rhythmic reading. Contrapuntal dictation and transcription projects. Continuation of improvisation techniques. Prerequisite: MUS 1108.

MUS 2230 Survey of Music Industry
An introduction to practices and inter-relationships of the music industry, such as retail, recording, distribution, legal aspects, publishing media and employment.

MUS 2240 World Music Cultures (2)
A survey of diverse musical traditions from around the globe. Musical cultures are approached anthropologically, and each culture will be examined to understand how music is entwined with human experience.

MUS 2245 Modern Popular Musics (2)
This course surveys the development of popular music in America and abroad. The course develops competency in the elements and history of music as well as the ability to critically analyze popular music trends.

MUS 3300 History of Jazz (2-2)
History of jazz and pop styles from 1900 to the present. Analysis of harmonic principles and common practices of each major period.

MUS 3305 Music Technologies (3-3)
Study of the applications of the microcomputer to music teaching and to the management, planning, and record-keeping tasks of the music educator.

MUS 3306 Conducting (3-3)
Basic conducting techniques for instrumental and choral groups. Includes score study, rehearsal techniques and interpretation of various styles. Prerequisite: MUS 1103.

MUS 3330 Survey of Western Music History I (3)
This course traces the development of Western music from the ancient and medieval worlds through the Renaissance and baroque periods.

MUS 3331 Survey of Western Music History II (3)
This course traces the development of Western music from the 18th century through the classical, romantic and contemporary periods.

MUS 3340 Diction for Singers (1)
Focuses on student understanding and application of singing of the English, Italian, Latin, German and French languages through use of the International Phonetic Alphabet and appropriate art song repertoire. Prerequisites: ENG 1102, MUS 2216.

MUS 3341 Vocal Pedagogy (1)
A study of vocal teaching methods with an emphasis on application for private voice and choral teachers. This course also includes a review of vocal/choral pedagogical literature. Prerequisite: MUS 2216.

MUS 3346 Educational Assessment in Fine Arts (3-3)
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.

MUS 3350 Wood and Percussion Methods (1)
Students will demonstrate theoretical, pedagogical and performance knowledge of/on selected wind/percussion instruments and awareness of instrument materials and rehearsal techniques, and will review the role of the instrumental music educator in music education.

MUS 3351 Class Brass (1-2)
Group instruction in techniques of playing and teaching brass instruments.

MUS 3352 Class Woodwinds (1-2)
Introduction to each of the principal woodwind instruments, emphasizing teaching techniques suitable for band classes.

MUS 3353 Class Percussion (1-2)
Group instruction in playing and teaching the principal pitched and non-pitched percussion instruments.

MUS 3354 Class Strings (1-2)
Group instruction in techniques of playing and teaching stringed instruments.

MUS 3356 Class Voice (1-2)
Introduction to the use of the singing voice for non-voice principals in music education.

MUS 3358 Beginning Folk Guitar (1-2)
Basic introduction to guitar chording and accompanying songs in the classroom or in informal settings.

MUS 3361 Integrating Music into the Curriculum (3-3)
Basic skills and methods of presentation and evaluation for music in grades P-6. Role-playing experiences are used to demonstrate appropriate materials, student invol

ceptional populations and designing musical activities for each. Prerequisite: sophomore standing.

MUS 4461 Orchestration and Arranging (2-2)
Ranges, transpositions and other characteristics of standard instruments and voices. Arranging projects geared to needs of school instrumental and choral groups. Prerequisite: MUS 2202.

MUS 4470 Instrument Repair (2-2)
Course includes basic musical instrument adjustment, maintenance and repair, common industry standards and guidelines, practical evaluation and hands-on adjustment and repair.

MUS 4471 Music for ECE and Elementary School (3-4)
Materials and planning techniques for music in grades P-6. Singing, listening, movement, instrument playing and creative activities will be explored. Multicultural elements, observation, teaching experiences, and practical application of ideas will be included. Prerequisites: MUS 1103 and junior standing.

MUS 4472 Internship in Music Education (9)
The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. Prerequisite: Admission to TEP. Corequisite: IED 4454.

MUS 4481 Methods and Materials for the Secondary Music Teacher (3-4)
Teaching methods, selection, organization and use of music materials in grades 6-12. Observation and teaching experiences will be included. Prerequisites: MUS 4471 and admission to TEP.

MUS 4491-4492 Guided Independent Research (1-3 credit hours per course)
Additional information may be found under Independent Research and Study.

MUS 4493-4494 Guided Independent Study (1-3 credit hours per course)
Additional information may be found under Independent Research and Study.

MUS 4499 Senior Recital (1-1)
Public performances of the senior recital. Required for all music education majors.

cations. Prerequisites: NSG 1140, NSG 1141, and BIO 3372, L372.

NSG 2213 Nutrition (2-2)
Introduces the concept of nutrition and its importance to health throughout the life span. Focuses on

NSG 1160 Introduction to Technology in Nursing Education (1)

Provides a foundation for using computer technology in nursing education. Addresses digital communication, resources, and research used in learning. Includes communication through electronic mail and course discussions using the World Wide Web as an information tool, online scholarly research, and digital presentations. Open to all majors.

NSG 2201 Dosage Calculations (1)

Uses mathematical principles, symbols, conversions and computations for accurate calculation of dosages for safe and effective medication administration for patients of all ages. Explores current evidence and health care policy related to safe and effective medication administration. Prerequisite: Admission to BSN program.

NSG 2204 Nutrition (2)

A study of macro and micronutrients, their metabolism in the body, and their influence on health states of individuals from diverse cultural, ethnic and religious groups of all ages. Examines nutritional research and health policy. Compares nutritional adequacy to evidence-based national standards. Open to all majors.

NSG 2205 Human Growth and Development (3)

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

NSG 2211 Human Nutrition (3)

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

NSG 2220 Health Science Informatics (3)

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

NSG

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: BIO 3347, L347, 3348, L348. Corequisite: 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, quality care. Requires demonstration of effective communication and performance of health assessment skills consistent with best practices. Prerequisites: BIO 3347, L347, 3348, L348. Corequisite: NSG 3309.

NSG 3313 Nursing Concepts (3)

Explores common health alterations for individuals of all ages in response to internal and external environmental dimensions. Examines the physical, psychosocial, cultural, and spiritual components influencing health states. Introduces the concept of illness as an alteration in health. Presents fundamental skills used in the implementation of therapeutic nursing interventions. Introduces evidence-based clinical decisions in the application of the nursing process for health promotion and clinical prevention. Prerequisite: Admission to BSN Program. Prerequisite or Corequisite: NSG 2201, 3306, 3309/3310, 3315. Corequisite: NSG 3314.

NSG 3314 Nursing Concepts Practicum (3-6)

Provides clinical learning opportunities for students to develop basic nursing knowledge and skills for the care of individuals of all ages who require assistance in meeting basic health needs and adapting to common health alterations. Uses key elements in professional nursing practice in the application of the nursing process as a systematic approach to clinical prevention, health promotion and maintenance, and illness and restorative care. Requires validation of competencies related to safe performance of basic nursing skills. Prerequisite: Admission to BSN Program. Prerequisite or Corequisite: NSG 2201, 3306, 3309/3310, 3315. Corequisite: NSG 3313.

NSG 3315 Pathophysiology (3)

Explores the relationship between normal and altered physiology in human systems. Examines physiological adaptive responses to internal and external dimensions, including genetics, ethnicity, environment and age. Emphasizes pathophysiologic responses to altered states of health and disease on structures and functions of body cells, organs and systems. Open to all majors. Prerequisites: BIO 3347, L347, 3348, L348.

NSG 3317 Nurse Extern Experience (1)

This course prepares the nursing student for the nurse extern experience and presents a practical approach to the development of skills necessary in the role of nurse extern. Prerequisites: NSG 3313, 3314.

NSG 3319 Informatics in Nursing (2)

Focuses on development of knowledge and skills in information management and patient care technology, including data gathering, technological supports for therapeutic nursing interventions, and clinical decision-support systems. Explores use of technology to gather evidence for support of best practices for the delivery of safe and quality nursing care. Presents software applications used in nursing informatics. Prerequisites: NSG 3325/3326, 3334/3335 or admission to RN-BSN/MSN track.

NSG 3323 Maternal-Infant Health Nursing (3)

Explores both normal childbearing families and childbearing families with health alterations in response to internal and external environmental dimensions. Examines the interrelationships among the physical, psychosocial, cultural, and spiritual components of the childbearing experience. Emphasizes evidence-based clinical decisions for the utilization of therapeutic nursing interventions, communication, and collaboration in a caring environment for the promotion of optimal health states of childbearing families. Prerequisites: NSG 3301, 3325/3326, 3334/3335. Corequisite: NSG 3324. Applies to Tracks 6 (for

administrationPrerequisites: NSG 2201, 3306,

NSG 4407 Clinical Nutrition (1)

A study of clinical nutrition therapy for support of adaptive responses to potential or actual major disease-specific health alterations. Presents best practices with consideration of physical, psychosocial, cultural and developmental components for clinical decisions in the design and implementation of therapeutic nursing interventions for health promotion and clinical prevention for individuals, families, communities, and populations. Prerequisites: NSG 3332/3333, 4413/4414 or admission to the RN-BSN/MSN clinical nursing sequence.

NSG 4413 Complex Nursing (3)

Interprets complex, multi-system health alterations in response to internal and external environmental dimensions. Examines theories related to stress and crisis management. Emphasizes evidence-based clinical decisions in a caring environment, utilization of communication and collaboration, and the integration of information technology, research findings, ethical competence, and cultural humility in nursing practice for the promotion of optimal health in individuals with complex, multi-system health alterations. Prerequisites: NSG 3323/3324, 3336/3337, 3319. Corequisite: NSG 4414.

NSG 4414 Complex Nursing Practicum (2-4)

Provides clinical learning opportunities for students to provide nursing care for individuals and groups experiencing complex, multi-system health alterations in response to internal and external dimensions. Emphasizes clinical reasoning in the application of the nursing process in collaboration for promotion of optimal health states in response to complex, multi-system health alterations. Focuses on performance of complex care skills required for safe, quality nursing care. Prerequisites: NSG 3323/3324, 3336/3337, 3319. Corequisite: NSG 4413.

NSG 4415 Nursing Leader

PER 2201 Intermediate Persian (Farsi) I (3-3)
Progressive development of basic language skills in Modern Persian. Prerequisite: PER 1102 or permission of instructor.

PER 2202 Intermediate Persian (Farsi) II (3-3)
Progressive development of basic language skills in Modern Persian. Prerequisite: PER 2201 or permission of instructor.

PHILOSOPHY COURSES (PHI)

PHI 2201 Introduction to Political Philosophy (3)
Major Classical sources of political thought and the

POL 4415 International Conflict (3)
This course provides a detailed examination of patterns of international conflict and methods employed to manage them: bases, emergence, escalation, de-escalation, negotiation, mediation, termination, and consequences. Specific episodes of international conflict will be investigated.

POL 4420 Constitutional Law (3)
A survey of the legal, political, and methodological problems in constitutional law.

POL 4421 Introduction to Public Administration (3)
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.

POL 4422 Public Policy Making (3)
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.

POL 4423 American Foreign Policy to 1920 (3)
A study of the factors, forces and functions in the making of American foreign policy from the 1760s to the end of World War I.

POL 4424 Contemporary American Foreign Policy (3)
This course examines the foreign policy processes of the United States: historical traditions, political institutions, economic and military capabilities, the Congress, the Presidency, interest groups, the media, and public opinion.

POL 4432 Comparative Public Policy (3)
This course examines the process of policy making in a cross-comparative framework that illus-

POL 4474 Terrorism and Political Violence (3)
This course is designed to introduce students to the origins and significance of contemporary political violence with an emphasis on the phenomenon of terrorism. It employs an interdisciplinary, case-study approach.

POL 4476 Politics of Southeast Asia (3)
This course involves the study of politics in the Philippines, Indonesia, Vietnam, Laos, Kampuchea, Malaysia, Singapore, Brunei, Myanmar, and Thailand. It investigates the historical and cultural factors contributing to their political relationships within the region and internationally

POL 4490 Internship in Political Science (1-3)
Supervised work in an agency that can provide practical experience in the field of study. Prerequisites: senior standing and approval of supervising instructor and the department chair.

POL 4491-4492 Guided Independent Research (1-3 credit hours each)
Additional information is indexed under Guided Independent Research and Study.

POL 4493 – 4494 Guided Independent Study (1-3 credit hours each)
Additional information is indexed under Guided Independent Research and Study.

POL 4495 Selected Topics in Political Science (3)
Examines selected topics of a timely nature and/or special interest within the field of political science.

PSYCHOLOGY COURSES (PSY)

PSY 2200 General Psychology (3)
A survey of the basic theories, concepts, principles, and research findings in the field of psychology.

PSY 2201 Honors General Psychology (3)
A survey of the basic theories, concepts, principles, and research findings in the field of psychology.

PSY 2205 Psychology of Adjustment (3)
A course in mental health, designed to assist the individual in making a good adjustment to the changing requirements of the environment.

PSY 2210 Developmental Psychology (3)
A study of human development across the life-span with emphasis on psychosocial, physical, emotional, and cognitive changes.

PSY 2230 Orientation to Psychology (3)
Introduction to the language of psychology, APA writing style, and library research. Also includes an 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 3303 Educational Psychology (3)
Characteristics of the learner and the teaching-learning process. Theories of learning, instruction, and motivation, and their application to students in grades P-12.

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. Explo-

PSY 3325 Adolescent Psychology (3)
Adolescents from puberty to early adulthood. Includes physical, cognitive, social, emotional, and

PSY 4421 Physiological Psychology (3)
The physiological correlates of behavior will be examined, including such topics as neurotransmitters and hormones, drugs, and the biological roots of mental disorders. Prerequisite: Six semester hours of psychology.

PSY 4430 Introduction to Substance Abuse Counseling (3)
This course provides an introduction to substance abuse counseling through studies of mind-altering substances; etiological theories of addiction; assessment interviewing and screening tests; individual, group, family, and other treatment options; relapse prevention; and community prevention programs.

PSY 4434 Drug Education, Prevention and Intervention (3)
A study of commonly abused drugs, drug abuse prevention, and treatment techniques. Examines characteristics of people at high risk to become substance abusers/addicted. Prerequisite: senior standing.

PSY 4435 Treatment of Addictive Family Diseases (3)
A study of typical characteristics of dysfunctional families. Provides the basis for suggested intervention techniques, appropriate areas of family education, and guidelines for effective therapy. Prerequisite: senior standing.

PSY 4436 Treatment Theories and Modalities of Addictive Diseases (3)
A study of historical perspectives and the most effective treatment and assessment approaches of addictive diseases. Prerequisite: senior standing.

PSY 4450 Theories of Personality (3)
Critical analysis of major theories and systems of personality. Prerequisite: Six semester hours of psychology.

PSY 4451 History and Systems of Psychology (3)
Study of the development of psychology from its historical antecedents with special emphasis placed on contemporary schools and systems of psychological thought. Prerequisite: Six semester hours of psychology.

PSY 4456 Gerontology (3)
The study of aging. Emphasis on biomedical, psychological, and social aspects of middle and late adulthood.

PSY 4459 Applied Behavior Analysis (3)
Training and experience in design, execution, and evaluation of behavior modification for professionals in fields of counseling, education, rehabilitation, and psychology. Provides study of key concepts of classical and operant conditioning, as well as discussion and application of specific strategies building on conditioning principles. Prerequisite: Six semester hours of psychology.

PSY 4460 Cognitive Psychology (3)
A study of human intellectual functioning including attention, perception, memory, problem solving, reasoning and language. Prerequisite: Six semester hours of psychology.

PSY 4470 Advanced Theories of Developmental Psychology (3)
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.

PSY 4475 Theories of Training and Evaluation (3)
Examines evaluation issues such as criteria development, organizational assessment, process and outcome criteria, along with instructional methodologies such as fairness training, special populations, second careers, and theories of organizational and industrial change. Prerequisite: Six semester hours of psychology.

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 education and employment opportunities in psychology. Prerequisite: Senior standing.

PSY 4491 Guided Independent Research (3)
This course is designed to provide supervised research in the area of psychology. Opportunities for undergraduate resear

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

PSY 4493 Guided Independent Study (1-3)
Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills. Prerequisite: Junior or senior status, permission of guiding professor, approval of department chairperson and the dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned.

PSY 4494 Guided Independent Study (1-3)
Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills. Prerequisite: Junior or senior status, permission of guiding professor, approval of department chairperson and the dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."

QUANTITATIVE METHODS COURSES (QM)

QM 2241 Business Statistics I (3)
An introduction to descriptive and inferential statistical concepts and methods. Topics include grouping of data, measures of central tendency and dispersion, probability concepts and distributions, sampling, statistical estimation, and statistical hypothesis testing. Prerequisite: MTH 1112.

QM 3341 Business Statistics II (3)
A continuation of basic business statistics. Topics include comparison involving means and proportions, ANOVA, simple linear regression and correlation, multiple linear regression, chi-squared applications, nonparametric methods, and simple decision analysis. Prerequisite: QM 2241.

QM 3342 Introduction to Operations Research (3)
An introduction to quantitative techniques applicable to business and economics. Topics include queuing analysis, transportation programming, PERT/CPM, and simple linear regression. Prerequisite: QM 2241.

READING/LITERACY COURSES (RED)

RED 0098 Reading I (3)
A course for those students who are deficient in basic reading skills such as word recognition, comprehension and study skills. A placement test will be required. NOTE: May not be audited. Institutional credit only.

RED 3380 Children's Literature (3)
The purpose of this course is to assist undergraduate students as they investigate and construct an understanding of and techniques to incorporate children's literature across the curriculum. Pertinent topics include award-winning authors and titles found in children's literature among a variety of genre, along with developmentally appropriate instructional techniques. Prerequisite: Admission to TEP.

RED 4481 Language and Literacy I: Grades P-3 (3)
Literacy instruction for the P-3 learner with emphasis on child development, learning theories, individual differences, emergent and early literacy, and examination of current materials and instructional practices used in teaching literacy. Prerequisite: Admission to TEP.

RED 4482 Language and Literacy II: Grades 4-6 (3)
Literacy instruction for the learner in grades 4-6 with emphasis on the principles of reading and language arts instruction, teaching strategies, and methods of expanding reading power. This course requires substantial field experience in the grades 4-6 setting. Prerequisite: Admission to TEP.

RED 4483 Language and Literacy III: Intervention Strategies (3)
Principles of assessment and evaluation for improving the language and literacy learning. Pre-service teachers will be introduced to the variety of screening and testing instruments for use in modifying students' instructional programs. Formal and informal methods for classroom observations will be explored, and methods for translating data collected for classroom management and/or communication to learners' parents will be introduced. The issues of privacy and ethical treatment of confidential records will also be addressed. Prerequisite: Admission to TEP, RED 4481.

RED 4484 Language and Literacy IV (3)
This course provides a study of teaching reading in grades P-12, emphasizing methods in the content areas. Prerequisites: EDU 3310, 20 semester hours in the major, and admission to TEP.

RED 4491-4492 Guided Independent Research (1-3)
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 cp6(of r)lsf 2r(.

RED 4493-4494 Guided Independent Study (1-3)

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

RHB 4450 Senior Seminar (2)
The impact of recent changes in federal and state legislation and the role and function of professional organizations and their positions on current issues. Prerequisite: HS/RHB major with senior standing or permission of instructor.

RHB 9920 Youth Leadership Forum Practicum (3)
The goal of the Youth Leadership Forum (YLF) is to develop a network of young adults with disabilities who realize their ability to pursue meaningful employment and societal contributions, while helping break down the barriers to independence for people with disabilities. Students taking RHB 9920 serve as group leaders for YLF participants and organize and carry out group activities and participant events. Requires Pre-YLF leadership training during the spring semester and a commitment to live on campus with the YLF participants for approximately a week. Prerequisite: Permission of instructor.

RISK MANAGEMENT AND INSURANCE COURSES (RMI)

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

RMI 3340 Surplus Lines and Reinsurance (3)
A study of the excess and surplus lines insurance markets as well as the reinsurance sector of the insurance industry. The course covers the formation and classification of these companies, their distribution systems, their regulation, their accounting procedures, and a comparison of these companies to admitted insurers. Prerequisite: RMI 3335 or permission of department chair.

RMI 3346 Life and Health Insurance (3)
Study of types of life insurance and annuity con-
2MI 334te: RMIan(3335(an3-1386352( )mion of departmel.786.)6.67nt cha)6.78.1(the)5.2(i)nc T*T4 1 Tf -4 -1.4663 TD 8.0015

Independent Research and Study. Note: This course may not be substituted for any required course.

RMIm31n R(1-3 ced it hurse

SCI 4491-4492 Guided Independent Research (1-4 credit hours per course per semester)
Additional information is indexed under Guided Independent Research and Study.

SCI 4493-4494 Guided Independent Research (1-4 credit hours per course per semester)
Additional information is indexed under Guided Independent Research and Study.

SECONDARY EDUCATION COURSES (SED)

SED 3346 Educational Assessment (3)
This course provides a study of measurement and evaluation techniques for the secondary and P-12 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.

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 tho TD 0 15 Tc at

provides a cross-category focus. Moreover, methods such as cognitive learning strategies are examined in depth. Prerequisites: SPE 3349 and Admission to TEP.

SPE 3304 Teaching Students with Moderate/Severe Disabilities (6-12) (3)

This course emphasizes a variety of educational strategies for secondary students with moderate and severe disabilities. Special emphasis is placed on the post-secondary adjustment of students with complex needs. Prerequisites: SPE 3302 and Admission to TEP.

SPE 3305 Transition Planning (3)

This course emphasizes educational strategies that promote the post-school adjustment of students with disabilities. Special emphasis is placed on the legal foundation of transition and effective transition models. Prerequisites: SPE 3303, 3304, 3340, and Admission to TEP.

SPE 3306 Teaching Students with Mild Disabilities (3)

This course will focus on organizational procedures, universal design of curriculum, methods and techniques used in educating students with specific learning disabilities, mild mental retardation, emotional/behavioral disorder

teachers, and other course topics. Prerequisites: SPE 4465 and Admission to TEP.

SPE 4460 Collaboration in Education Practices (3)
This course provides students with both the intrapersonal and interpersonal skills needed to effectively collaborate with other teachers, administrators, parents and agencies. Prerequisite: Admission to TEP.

SPE 4465 Collaborative Teacher (6-12) Internship (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 innovative, informed, reflective decision-maker through the internship experience. Prerequisite: SPE 4454 and Admission to TEP.

SPE 4474 Collaborative Teacher K-6 Internship (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: SPE 4454.

SPE 4491-4492 Guided Independent Research (1-3)
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 chairperson or dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. 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."

SPE 4493-4494 Guided Independent Study (1-3)
Supervised study through field or laboratory projects, guided readings, creative endeavors or achievement of specific skills. Prerequisites: junior or senior status, permission of guiding professor, approval of department chairperson and the dean. A written request is to be submitted to the department chairperson at least two weeks in advance of the term in which study is to be undertaken. May not be used to repeat a course for which a grade of D or below has been earned. Also see index for "Independent Study and Research."

SPANISH COURSES (SPN)

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

SPN 1141 Introductory Spanish I (3)
Introduction to the Spanish language and Hispanic cultures.

SPN 1142 Introductory Spanish II (3)
Introduction to the Spanish language and Hispanic cultures. Prerequisite: SPN 1141 or permission of instructor.

SPN 2241 Intermediate Spanish I (3)
A review of grammar and readings in Spanish literature and civilization. Prerequisite: SPN 1142 or permission of instructor.

SPN 2242 Intermediate Spanish II (3)
Reinforcement of grammatical skills, reading of simple Spanish prose and poetry, composition and conversation. Prerequisite: SPN 2241 or permission of instructor.

SPN 3332 Advanced Spanish I (3)
Advanced-level reading, intensive work on composition, comprehensive treatment of Spanish phonetics. Prerequisite: SPN 2242 or permission of instructor.

SPN 3333 Advanced Spanish II (3)
Advanced-level reading, intensive work on aural comprehension and practical conversation facility, continued development of composition skills. Prerequisite: SPN 2242 or permission of instructor.

SPN 3350 Hispanic Culture on Location I (3-TBA)
An in-depth presentation of Hispanic culture combining lectures, readings, films, audiotapes, discussions and intensive language practice on the Troy campus with on-site visits to an Hispanic environment. Prerequisite: Permission of instructor.

SPN 3357 Hispanic Culture on Location II (3-TBA)
An in-depth presentation of Hispanic culture combining lectures, readings, films, audiotapes, discussions and intensive language practice on the Troy campus with on-site visits to an Hispanic environment. Prerequisite: Permission of instructor.

SPN 4447 Readings in Hispanic Literature (3)
In-depth study of the works of a selected major author, period or genre in the literature of Spain or Spanish America. Note: May be repeated for credit. Prerequisite: SPN 2242 or permission of instructor.

SPN 4450 Hispanic Culture and Civilization (3)
A survey of the geography, history, cultural achievements, institutions and daily life of Spain and other Hispanic countries. May be repeated once for a total of six credit hours. Prerequisite: SPN 2242 or permission of instructor.

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

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

SOCIAL SCIENCE COURSES (SS)

SS 3375 Introduction to Social Science Inquiry (3)
Principles of pure and applied research for the social sciences. Special emphasis is given to the types of research methods employed by social scientists including survey techniques, field research, quasi-experimental designs and analytical procedures currently used in the social sciences. Prerequisite: general studies math.

SS 3376 Applications of Social Science Inquiry (3)
A detailed description of what social scientists do with the information they gather. Particular attention is given to descriptive and inferential statistics, the relationship between research and policy, evaluation research, and research ethics. Prerequisite: general studies math.

SS 4474 Internship in Secondary Social Science 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 4454.7.3(des7((ce)8.m providTw)ty)-n-nqui6lminat-
.2(-1.7o TE)4.947e