

A&M—CENTRAL TEXAS COURSE DESCRIPTIONS

Accounting (ACCT)

ACCT 3300. Financial Accounting Concepts. 3 Credit Hours.

Learn basic accounting principles, concepts, and methods to include a review of general purpose financial statements and the accounting process. Used to provide for students without a previous accounting background. (Meets requirements for Accounting I.).

ACCT 3301. Accounting and Finance Data Analytics 1. 3 Credit Hours.

Learn the elements of data analytics necessary to convert raw data into meaningful information that is useful in the decision making process. Utilizing accounting and finance datasets as the basis for learning data analytics. Stimulate further exploration of data analysis. Prerequisite(s): To enroll in this course, students must have completed ACCT 2301 or ACCT 3300, or have received permission from the Department Chair.

ACCT 3302. Cost Accounting. 3 Credit Hours.

Learn accounting for material, labor, and manufacturing expenses in both job order and process cost systems. Special emphasis will be given to distribution of service department cost and costing of byproducts and joint products. Prerequisite(s): To enroll in this course, students must have completed ACCT 2301 or ACCT 3300, and ACCT 2302 or ACCT 3311, or have received permission from the Department Chair.

ACCT 3303. Intermediate Accounting I. 3 Credit Hours.

Study the environment of accounting, development of standards, basic theory, financial statements, and the application of generally accepted accounting principles for the business enterprise with emphasis on corporations. This course will focus on the financial statements and basic assets. Prerequisite(s): ACCT 3300 or ACCT 2301 or permission of department chair.

ACCT 3304. Intermediate Accounting II. 3 Credit Hours.

Study the environment of accounting, development of standards, basic theory, financial statements, and the application of generally accepted accounting principles for the business enterprise with emphasis on corporations. This course will focus on accounting for investments, liabilities, equity, and changes in accounting. Prerequisite(s): ACCT 3303 or permission of department chair.

ACCT 3305. Governmental and Nonprofit Accounting. 3 Credit Hours.

This course provides a comprehensive foundation in budgeting, accounting, and financial reporting for governmental and nonprofit organizations. It explores essential financial practices and addresses the unique regulatory, compliance, and reporting standards of the public and nonprofit sectors. Through practical applications and interactive exercises, students develop expertise in fund accounting, budget management, and financial statement preparation. This hands-on approach equips students with the skills needed to effectively manage and oversee the financial operations of public and nonprofit entities, preparing them for impactful careers in these vital sectors. Prerequisite(s): ACCT 3303 or permission of department chair.

ACCT 3307. Writing for Accountants. 3 Credit Hours.

(WI) Learn how to improve communication skills for those entering the accounting profession. Study written communication including letter writing, memos, emails, reports, employment resumes, and writing for publication. Special emphasis on organization of thought, critical thinking, and accounting research.

ACCT 3308. Managing Accounting. 3 Credit Hours.

Study the uses of accounting information by management. Accounting procedures and reports essential to management are emphasized, as are cost analysis, cost control, budgeting, and controllership. Prerequisite(s): ACCT 2301 or permission of department chair. Course cannot be counted as part of a degree program for an accounting major.

ACCT 3310. Accounting Information Systems. 3 Credit Hours.

Study the design and implementation of complex accounting information systems. Understand the traditional accounting model and its relationship to each type of accounting information system, including accounts receivable, inventory control, cost accounting, operational budgeting, and capital budgeting. Special emphasis on key elements of a well-designed management control system. Prerequisite(s): To enroll in this course, students must have completed ACCT 2301 or ACCT 3300, or have received permission from the Department Chair.

ACCT 3311. Management Accounting Concepts. 3 Credit Hours.

Explore the essentials of management accounting, emphasizing the analysis of financial information to support internal decision-making and strategic planning. This course provides foundational tools for budgeting, cost management, and performance evaluation, equipping you to make informed decisions that drive organizational success. Prerequisite(s): Completion of ACCT 2301 or ACCT 3300, or permission from the Department Chair.

ACCT 3387. Cooperative Education. 1-3 Credit Hours.

Integrate academic study with work experience that is relevant to a major or minor. Two-semester minimum requirement that may be accomplished by 1) alternating semesters of full-time study with semesters of curriculum-related employment, or 2) enrolling in courses at least half-time (6 semester hours) and working part-time in parallel positions of curriculum-related employment. Cooperative Education advisor will supervise and assign the final grades. Students may participate in the Cooperative Education but will earn only a maximum of 6 hours credit toward a degree. Prerequisite(s): Completion of 30 semester hours which includes 12 hours in the major or minor discipline in which the Cooperative Education course is desired, minimum overall GPA of 2.5 and a minimum GPA of 3.0 in the appropriate major or minor field, and permission of department chair. Field experience fee \$75.

ACCT 4301. Intermediate Accounting III. 3 Credit Hours.

Study financial statement analysis and accounting topics related to financial statement presentation and disclosure. Prerequisite(s): ACCT 3304 or permission of department chair.

ACCT 4303. Advanced Accounting. 3 Credit Hours.

Analyze special phases of partnership accounting, joint ventures, consignments, installment sales, statement of affairs and accounting for insolvent concerns, and business combinations. Prerequisite(s): ACCT 4301 or concurrent registration.

ACCT 4305. Federal Tax Accounting I. 3 Credit Hours.

Study current income tax laws and regulations, emphasizing individual tax compliance and applying tax laws for tax filing and reporting. Topics include the statutory framework of tax law, filing status, requirements for claiming dependents and determining income, deductions, capital gains (losses), and credits for federal income tax purposes. Prerequisite(s): ACCT 2301 and junior standing. Credit for both ACCT 4305 and FIN 4305 will not be awarded.

ACCT 4306. Federal Tax Accounting II. 3 Credit Hours.

Continue the study of current income tax law and tax accounting procedures. Learn about preparation of income tax returns for partnerships and corporations. Prerequisite(s): ACCT 4305 or permission of department chair. Credit for both ACCT 4306 and FIN 4306 will not be awarded.

ACCT 4323. Ethics for Accountants. 3 Credit Hours.

Learn auditing and ethical responsibilities for auditors and other accountants in both public and private practice. Study generally accepted auditing standards, the standard audit report, legal responsibilities of accountants, the Code of Professional Conduct for accountants, independence, and objectivity. Special emphasis on case studies involving ethical reasoning, ethical decision making. Prerequisite(s): ACCT 3304.

ACCT 4324. Auditing and Assurance Services. 3 Credit Hours.

(WI) This course provides a comprehensive exploration of auditing principles and practices, with a focus on both external auditing conducted by certified public accountants and internal auditing. Students will gain a deep understanding of auditing theory, standards, procedures, and ethics. The course will cover various aspects of auditing, including risk assessment, internal controls, fraud detection, and evidential matters. Participants will also learn how to prepare effective working papers and reports. Prerequisite(s): To enroll in this course, students must have completed ACCT 3301, ACCT 3302, ACCT 3303, ACCT 3304, ACCT 3305, and ACCT 3310, or have received permission from the Department Chair.

ACCT 4335. Financial Statement Analysis. 3 Credit Hours.

Learn the use of financial statements to analyze the position of a firm. Study analysis techniques and limitations imposed by generally accepted accounting principles. Prerequisite(s): ACCT 2301 or ACCT 3300 or permission of department chair.

ACCT 4350. Management Information Systems. 3 Credit Hours.

(WI) Study management issues related to business information systems designed to meet the informational needs of the various business subsystems. Special emphasis on the concepts of systems development, security, privacy and ethics associated with information systems. Credit will be awarded for only one of the following courses: ACCT 4350, CIS 4350, or MGMT 4350. Prerequisite(s): COSC 1301 or 3 hours of Advanced CIS or ACCT 3301 or CIS 3301 and junior standing.

ACCT 4357. Accounting Theory. 3 Credit Hours.

Study of the generally accepted accounting rules and principles that govern the practical application of accounting methods. Prerequisite(s): ACCT 3303 and ACCT 3304.

ACCT 4384. Accounting Internship. 3 Credit Hours.

This course provides accounting majors with supervised practical experience in a professional accounting environment. Students will apply accounting concepts and techniques learned in their coursework to real-world tasks such as financial reporting, auditing, taxation, and financial analysis. The internship is designed to enhance technical competencies, professional communication skills, and ethical understanding within the accounting profession. Students are required to secure an approved internship position, maintain a reflective journal, and submit a final report summarizing their experience and learning outcomes.

ACCT 4388. Accounting Problems. 1-3 Credit Hours.

Study of selected problems in accounting. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. May be repeated with permission of department chair. Prerequisite(s): Senior standing and permission of department chair.

ACCT 4389. Special Topics in Accounting. 3 Credit Hours.

Study current issues and developments in accounting. Prerequisite(s): Permission of instructor.

ACCT 5090. Comprehensive Examination. 0 Credit Hours.

Study and take the accounting examination for Non-thesis students. Register for the comprehensive examination during final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis student do not take this examination.

ACCT 5300. Foundations of Accounting. 1 Credit Hour.

Learn basic knowledge of accounting necessary to begin the MBA program. Appropriate for students who have not had prior accounting courses, or who need a refresher course, prior to their MBA studies. Study the accounting process, accounting cycle, preparation of the basic financial statements in corporate annual reports, analysis of corporate financial statements using ratio analysis, the study of cost behavior, and cost-volume-profit analysis.

ACCT 5301. Data Analytics in Accounting. 3 Credit Hours.

This course emphasizes essential data analytics skills for addressing accounting challenges, seamlessly integrating technology and analytics into the accounting profession. Topics covered include data preparation, advanced analysis techniques, and practical experience with relevant software tools. Furthermore, it encourages in-depth analysis, research, and effective presentation of contemporary accounting issues pertinent to business professionals.

ACCT 5303. Accounting for Managerial Decision-Making. 3 Credit Hours.

This course explores how accounting information enhances managerial decision-making in business. It covers budgeting, cost analysis, internal control, and financial reporting. Students will learn to interpret financial statements, use financial ratios for evaluation, and understand the importance of cost measurement in assessing organizational performance. Designed for users of accounting data, the course provides practical insights for effective decision-making in various organizational activities. Prerequisite(s): Required accounting leveling or permission of instructor.

ACCT 5305. Accounting Theory. 3 Credit Hours.

Study the theory of accounting as it has developed in the economy of the United States. Particular emphasis is on concepts, income measurement, and valuation of assets, including valuation and measurement of equities. Application of accounting theory to contemporary problems is analyzed with cases and research papers on selected areas.

ACCT 5310. Advanced Accounting Systems. 3 Credit Hours.

Comprehensive study of computerized accounting systems. Study design, implementation, operation, control and audit techniques of accounting information.

ACCT 5315. Business Law for Accountants. 3 Credit Hours.

Study current business law topics which concern accountants in governing their practice and working with clients.

ACCT 5320. Corporate Tax. 3 Credit Hours.

Analyze formation and capital structures, partial liquidations, S Corporations, accumulated earnings tax, and personal holding companies.

ACCT 5330. Current Topics in Auditing. 3 Credit Hours.

Explore current topics in auditing.

ACCT 5335. Estate Planning. 3 Credit Hours.

Study federal estate and gift taxation, as well as advanced family tax planning. Explore issues in taxation of decedent's estate and lifetime gifts, and valuation of properties subject to gift and estate taxes.

ACCT 5340. Ethics in Accounting. 3 Credit Hours.

Study of ethics as it relates to problems in business and economic decisions. Explore integration of ethical reasoning, objectivity, independence, and other core values important for the development of a professional accountant. Analyze ethical lapses that have occurred in business and the accounting profession, with readings, problems, and cases requiring use of business and accounting data to evaluate the ethical decision process.

ACCT 5345. Financial Statement Analysis. 3 Credit Hours.

This course offers an in-depth examination of the principles and techniques used in the analysis of financial statements. Students will develop the skills necessary to apply accounting and finance principles to assess a company's financial health, evaluate performance, and make informed business decisions. The course emphasizes analytical approaches to understanding financial reports, with a focus on interpreting key financial ratios, cash flow analysis, and the use of financial statements for strategic planning.

ACCT 5350. Forensic Accounting. 3 Credit Hours.

This course provides a comprehensive exploration of forensic accounting and investigative auditing techniques. Students will examine the full cycle of forensic investigations, including the evaluation of internal controls, analysis of account balances, and interpretation of corroborative evidence. Key topics include the use of flowcharts, statistical sampling, computer controls, and management audits. Students will gain hands-on experience through collaborative work on an extended case audit, applying forensic accounting methodologies to real-world scenarios.

ACCT 5355. International Accounting. 3 Credit Hours.

Examine accounting issues unique to multinational enterprises and international business activities.

ACCT 5360. Information Technology Audit. 3 Credit Hours.

Learn controls, issues and audit techniques to explore the use of a computers as an auditing tool. Utilize generalized audit software currently used in auditing practices. Particular emphasis on computer fraud, security measures and controls in advanced online, teleprocessing systems.

ACCT 5365. Accounting Research Seminar. 3 Credit Hours.

This course focuses on advanced research methods in accounting, exploring both accounting theory and its practical applications. Students will develop the skills to conduct in-depth research on a variety of accounting topics, addressing complex challenges in professional settings. Emphasis is placed on critical analysis, the application of research methodologies, and the ability to synthesize findings to inform real-world decision-making in accounting and finance.

ACCT 5370. Advanced Auditing. 3 Credit Hours.

This course delves into advanced auditing concepts and practices, covering both internal and external auditing. Students will explore topics such as auditing theory, risk management, regulatory compliance, and internal controls, while developing the ability to apply auditing standards to complex financial scenarios. Emphasis is placed on the use of data analytics and emerging technologies to enhance audit accuracy and efficiency, preparing students to address evolving challenges in auditing and assurance services.

ACCT 5375. Tax Research Seminar. 3 Credit Hours.

Develop the technical and research skills needed to address contemporary tax issues. Study tax issues, formulate research questions and develop the research skills needed to address them. Special emphasis on major tax services, evaluating relevant authorities and communicating findings in a professionally written research memorandum, familiarization of federal tax policies and procedures, and the authorities that govern tax practice.

ACCT 5384. Accounting Internship. 3 Credit Hours.**ACCT 5388. Accounting Problems. 1-3 Credit Hours.**

Study of selected problems in accounting. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Prerequisite(s): Permission of department chair.

ACCT 5389. Special Topics in Accounting. 3 Credit Hours.

Study selected accounting topics of current importance to business management. May be repeated once for credit when topics vary.

ACCT 5395. Current Topics in Accounting. 3 Credit Hours.

Explore selected topics of new or current interest in financial accounting.

Anthropology (ANTH)

ANTH 3300. Cultural Anthropology. 3 Credit Hours.

Explore culture and the different attitudes toward cultural diversity in a postmodern, global community. Special emphasis on prehistory, subsistence, economic anthropology, political anthropology, cultural eras, the rise of state societies, and kinship systems. Learn theories and methods of anthropology, and survey the history of the discipline.

ANTH 3301. Cultural Diversity. 3 Credit Hours.

Examines culture and its influence on human life. Explores the basic principles of cultural anthropology that leads to interpretations of different cultures. Exposes the student to the theories, data, and critical thinking skills needed to understand global humanity.

ANTH 3305. Wicca and Neo-Paganism. 3 Credit Hours.

A critical examination of Wicca and Neo-pagan groups in the US. Explores the history of such groups and exposes the student to academic research in this area.

ANTH 3310. Anthropological Theory. 3 Credit Hours.

Introduces students to anthropological theories in the following sub-disciplines: cultural anthropology, biological anthropology, archaeology, and linguistics.

ANTH 3313. Anthropology of the Supernatural. 3 Credit Hours.

This course explores supernatural and occult traditions as they appear in the context of religion, narrative, folk healing, ritual and media accounts and representations in global cultures. This course focuses primarily on people's practices and lived experiences of the supernatural within their cultural context. We will study how scholars in Anthropology and related disciplines have approached these topics.

ANTH 3315. Visual Anthropology. 3 Credit Hours.

In a visually saturated world, how do images shape our understanding of culture? This course explores visual representations of people using anthropological frameworks, focusing on the ethnographic value of visual and multimodal materials. Students will create small-scale projects with community partners, engaging in the 'multimodal' turn in anthropology. No prior experience with visual media is required, as the course emphasizes analyzing and producing content beyond technical skills in picture-making.

ANTH 3320. Archaeology. 3 Credit Hours.

Study the history of archaeology, its theories, methods, and current techniques in site excavation. Examine archaeological cultural complexity by studying hunter-gatherer and state societies in a worldwide overview, as well as within bioarchaeology, CRM work, and NAGPRA.

ANTH 3321. Archaeological Discoveries. 3 Credit Hours.

Study the historical development of the field of archaeology through investigating the most important archaeological discoveries of the past and present. Critique hoaxes and archaeological myths and learn how archaeologists have dispelled them to develop the science of archaeology.

ANTH 3322. Archaeology of Warfare and Violence. 3 Credit Hours.

(WI) Study the complex history of warfare in different time periods and world regions with archaeological record. Explore the development of warfare in preindustrial societies, and review the current state of warfare research in archaeology. Special emphasis on the bioarchaeology of conflict.

ANTH 3333. Anarchist Anthropologies. 3 Credit Hours.

Anthropology offers valuable insights into the world but is also tied to problematic histories and power dynamics in its methodologies. Decades of efforts to “decolonize” the discipline have addressed some power imbalances rooted in colonial, racist, and gendered perspectives. But what if power itself is the core issue affecting anthropological research? This course examines anthropologies that strive to flatten the hierarchies in ethnographic inquiry and explores the role of anarchism in “decolonizing” anthropology.

ANTH 3340. Biological Anthropology. 3 Credit Hours.

Examines the evolutionary processes acting on human populations, through an anthropological study of human biology. Introduces non-human primate anatomy, primate classification and ecology, and explores the primate paleontological record. Special emphasis placed on human variation and adaptation. Materials fee \$15.

ANTH 3355. Modern Southeast Asia. 3 Credit Hours.

This course will introduce students to modern life in Southeast Asia. Students will learn more about the unique histories, cultures, languages, and societies of Burma/Myanmar, Cambodia, Indonesia, Laos, Malaysia, Singapore, Thailand, The Philippines, and Vietnam. Through hands-on learning activities and engagement with ethnographic studies, students will develop a deep appreciation for the complexity and dynamism of Southeast Asia.

ANTH 3368. Religions Across Asia. 3 Credit Hours.

This course introduces students to the study of religions in contemporary Asia. Students will learn about the major religions in Asia, including Hinduism, Buddhism, Christianity, Islam, and Daoism, as well as their origins, development, and spread. The impact of religion on Asian culture and society and current issues related to the practice of religion are also discussed.

ANTH 3372. Linguistic Anthropology. 3 Credit Hours.

This course introduces the foundational relationship between language and culture by examining anthropological approaches to the study of language, known as linguistic anthropology. Topics include the study of language variation and how variations carry sociocultural meanings, how language use constructs speaker identity, and theoretical approaches and methodologies for collecting and analyzing sociolinguistic data.

ANTH 4300. Anthropological Theory. 3 Credit Hours.

Introduces students to anthropological theories in the following sub-disciplines: cultural anthropology, biological anthropology, archaeology, and linguistics.

ANTH 4310. Myth and Ritual. 3 Credit Hours.

Examine the history, beliefs, and practices of small-scale societies based on ethnographic literature. Study religious origins, shamanism, trance and other altered states, healing and bewitching, new religions, and certain treatments of the major religious traditions of Hinduism, Buddhism, Judaism, Christianity, and Islam. Cross-listed with RELS 4310; only one may be taken for credit.

ANTH 4313. Anthropology of Resistance. 3 Credit Hours.

Amid growing global political polarization, resistance movements and counterhegemonic ideologies are becoming more visible in socio-political discourses. Beyond challenging inequitable policies, everyday resistance reflects broader efforts to confront power imbalances. What does this resistance look like, and how does it shape our understanding of the human condition? This course explores these questions through diverse ethnographic case studies worldwide, using anthropological frameworks to critically examine resistance and its impact on contemporary global sociopolitical issues.

ANTH 4317. Qualitative Methods. 3 Credit Hours.

Introduces methodological approaches corresponding to qualitative research methods, with special emphases on interviewing, observation techniques, ethnographic field-based methods, and content analysis. Students are encouraged to take SOCI 4316 before or in conjunction with this course.

ANTH 4320. Ancient Civilizations of Mesoamerica. 3 Credit Hours.

Explore the major pre-Columbian cultures of Mesoamerica, from Olmec to Aztec periods, with a focus on ancient Maya. Emphasis on archaeological and bioarchaeological prehistory and history of these cultures up to and beyond the point of European contact.

ANTH 4322. Ancient Civilizations of China. 3 Credit Hours.

This course surveys the history and culture of ancient China beginning in the Neolithic period. Students will learn about the major dynasties of ancient China and the key political, social, economic, religious, philosophical, and cultural developments of each dynasty. The course will also examine the impact of geography, climate, and technology on the development of Chinese civilizations.

ANTH 4330. Bioarchaeology. 3 Credit Hours.

Study archaeology and physical anthropology with the use of evidence gleaned from human skeletal remains. Focuses on the role of the human skeleton in reconstructing both the biological and cultural past of the human species.

ANTH 4340. Human Osteology. 3 Credit Hours.

Examines the human skeleton as the foundation for biological anthropological study. Introduces concepts and methods used by anthropologists to identify, describe, and analyze human skeletal remains from forensic and archaeological contexts. Materials fee \$15.

ANTH 4341. Paleopathology. 3 Credit Hours.

In this course, students will learn concepts and methods related to the diagnosis and interpretation of disease in antiquity. The overall health status of earlier human populations is emphasized through case studies involving skeletal lesions exhibited in prehistoric or early historic human remains. Problems in diagnosing lesions and evaluating the occurrence of lesions in past populations are reviewed.

ANTH 4351. Forensic Anthropology. 3 Credit Hours.

Forensic Anthropology is the recovery and analysis of human skeletal remains for modern legal inquiry. This lecture-based course is an overview of the field of Forensic Anthropology illustrated with real forensic cases.

ANTH 4352. Field Methods in Forensic Anthropology. 3 Credit Hours.

In this course, students will learn basic field and laboratory methods standard to the discipline of Forensic Anthropology. Field methods include how to locate, excavate and recover human remains in order to ensure legal credibility for all recoveries. Laboratory methods include the creation of a biological profile including age, sex, stature, ancestry, and trauma interpretation. Materials Fee \$20.

ANTH 4389. Special Topics in Anthropology. 3 Credit Hours.

Investigate selected topics within the field of Anthropology. May be repeated when topic varies.

ANTH 5301. Cultural Sensitivity. 3 Credit Hours.

Examines different cultures and their influences on human lives. The perspective, theories, data, and critical thinking of cultural anthropology assist the student to interpret and appreciate cultural diversity on the world stage.

ANTH 5310. Anthropology of Religion. 3 Credit Hours.

Examine and critique anthropological theories, ethnographies, and literature pertaining to the study of religious phenomena, including myth and ritual, altered states, healing, bewitching, and religious practitioners. This course is cross-listed with RELS 5310 and only one may be taken for credit.

ANTH 5351. Forensic Anthropology. 3 Credit Hours.

Gains a comprehensive understanding of the field of forensic anthropology. Reviews a diverse range of topics including age, sex, ancestry, stature, and trauma, and understands how these are used in identification and determining cause and manner of death, as well as learn to evaluate and critically analyze scientific publications within the discipline of forensic anthropology. Materials fee \$15.

ANTH 5389. Special Topics in Anthropology. 3 Credit Hours.

Investigate selected topics within the field of anthropology. Students may enroll for additional credit hours when topics vary.

Arts (ARTS)

ARTS 3316. Intermediate Painting. 3 Credit Hours.

Building on previous courses in painting and other media, students investigate personal direction and sensibility utilizing various painting materials and techniques. Emphasis is placed on the relationship of intent, form and content. Repeatable to 9 semester hours. Prerequisite(s): ART 2316 or permission of the instructor.

ARTS 3323. Advanced Drawing. 3 Credit Hours.

Emphasis on experimental and individually based, expressive statements using drawing media. A variety of subjects, including the figure, will be used. Repeatable to 6 semester hours. Prerequisite(s): Prerequisites: ARTS 1316, ARTS 1317, or permission of the instructor.

ARTS 3326. Intermediate Sculpture. 3 Credit Hours.

Students will continue to employ advanced art-making strategies, with emphasis on developing informed, personal methods of communication in various three-dimensional and real-time media. Assigned projects will become increasingly complex over the semester and require students to justify the validity and place of their work within the context of contemporary art. Visits to museums, galleries, and art collections will be an important component of this class. Repeatable to 9 hours. Prerequisite(s): ARTS 2326 or permission of instructor.

ARTS 3336. Intermediate Photography. 3 Credit Hours.

A studio art course that furthers the study of the technical and conceptual basics of photography as a creative medium. This exploration of photography will be facilitated through projects that explore historic and contemporary genres. Prerequisite(s): ART 2313.

ARTS 3346. Intermediate Ceramics. 3 Credit Hours.

This course offers further exposure to ceramic forming methods, surface treatment, and firing processes. Increased attention will be given to the conceptual and aesthetic aspects of the ceramics medium and the development of an expressive, individual direction. Prerequisite(s): ART 2346 or permission of instructor.

ARTS 4346. Advanced Ceramics. 3 Credit Hours.

Lab Safety Training required. Advanced individual investigation of ceramic techniques and glaze formulation with emphasis on production of major professional-quality pieces. Increased emphasis is placed on critical research in contemporary and historical ceramics. Repeatable to 9 semester hours. Prerequisite(s): ART 3346 or permission of instructor.

ARTS 4394. Senior Project. 3 Credit Hours.

Advanced individual work in the student's major/minor area. Preparation for the B.S. candidate's senior exhibition or portfolio presentation. Can be repeated once for a maximum of six credit hours. *Classes may meet on a TBA schedule. Prerequisite(s): completion of 60 hours of art and consent of instructor.

Aviation Science (AVSC)

AVSC 3300. Maintenance Department Personal and Team Leadership. 3 Credit Hours.

This course examines the personal dynamics of self-motivation, personal organization, and organizing effective team structures and dealing with team interpersonal dynamics in an aviation maintenance facility. Prerequisite(s): Admission Requirements.

AVSC 3301. Air Carrier Operations. 3 Credit Hours.

Explore Federal Aviation Regulations relating to various specialized facets of the aviation industry, including airline operations, aircraft certification, air-worthiness standards and airport operations. Prerequisite(s): Commercial Pilot Certificate or permission of the department Chair.

AVSC 3302. Aviation Techniques of Instruction. 3 Credit Hours.

Examine the fundamentals of teaching and learning in an aviation oriented environment. Develop the techniques of instruction and the analysis of flight maneuvers, and demonstrate the theory of flight. Correlate Federal Aviation Regulations relating to the application of their flight instructor rating. Prerequisite(s): Commercial Pilot Certificate or permission of instructor.

AVSC 3304. Airport Management. 3 Credit Hours.

Examine requirements for developing a public airport to include local and state governmental agencies. Explore Federal aid and regulations, and the management required for the overall airport operations. Analyze tenant operators, leases, property development for non-aviation use, user taxation for airport operations, planning and policies, organization and administration, maintenance, safety and airport fuels and regulations. Prerequisite(s): Acceptance into Aviation Management program.

AVSC 3307. Aviation History. 3 Credit Hours.

(WI) Study the people and events from ancient times through the present that have influenced modern aviation internationally. Examine historical evidence and recorded documents to understand the role aviation has played in world events. Prerequisite(s): Acceptance into Aviation Management or Professional Pilot program.

AVSC 3308. Aviation History II. 3 Credit Hours.

Study the people and events from 1939 to the present that have influenced modern aviation internationally. Examine historical evidence and recorded documents to understand the role aviation has played in world events. Prerequisite(s): Junior classification.

AVSC 3310. Managing Maintenance Organizations and People. 3 Credit Hours.

Overview of the role of aviation maintenance management, and an introduction to leadership theory and practice. Includes defining of mission and goals, organizing work, and managing human performance. Prerequisite(s): Admission to program.

AVSC 3321. Airline Management. 3 Credit Hours.

Discover the behind-the-scenes activities involved in the business of airline operations. Prerequisite(s): Acceptance into Professional Pilot program.

AVSC 3333. Airports and Environmental Impact. 3 Credit Hours.

Review the FAA advisory circular topics such as sustainability, solar alternative energy, environmental hazards and prevention of mishaps with an emphasis on the importance of environmental concerns in modern airports and the impact on the surrounding communities and ecosystems. Prerequisite(s): Acceptance into Aviation Management program.

AVSC 3339. Basic Ground Instructor. 3 Credit Hours.

The Basic Ground Instructor (BGI) course prepares students to take the ground instruction exam required for a sport pilot, recreational pilot, or private pilot certificate. Topics covered include aviation weather, navigation, aircraft systems and related materials to the BGI certificate. The BGI course also includes Fundamentals of Instruction (FOI) knowledge test preparation, both of which are required for licensure by the FAA. Field Experience Fee \$175. Prerequisite(s): Must be at least 18 years old.

AVSC 3350. Technical and Professional Communications for Aviation Maintenance Managers. 3 Credit Hours.

(WI) This course covers the technical communication principles and practices used in the aviation maintenance workplace. Students learn the technical writing of reports and correspondence using electronic information retrieval and presentation. Prerequisite(s): Admission to program.

AVSC 4301. Aviation Law. 3 Credit Hours.

Explore the distinctive body of statutes, treaties, regulation and case law related to general aviation. Examine specialized rules and laws that have been developed due to the distinctive nature of the airplane as a mode of transportation. Prerequisite(s): Acceptance into Aviation Management or Professional Pilot program.

AVSC 4302. Advanced Aircraft Systems. 3 Credit Hours.

Study aerodynamics, federal aviation regulations, weight, balance, and turbine systems, and their relationship with aircraft systems. Apply and operate advanced aircraft systems used by commercial pilots in air carrier operations. Prerequisite(s): Acceptance into Aviation Management or Professional Pilot program.

AVSC 4308. Aviation Safety. 3 Credit Hours.

Analyze effective procedures and techniques in the development and supervision of an Aviation Safety program. Study aircraft accident prevention, and the use of statics in aviation safety. Special emphasis on safety measures and education media materials. Prerequisite(s): Acceptance into Aviation Management or Professional Pilot program.

AVSC 4309. Aviation Security. 3 Credit Hours.

(WI) Consider the use of situational awareness, teamwork, and effective communication to recognize and thwart security threats in the aviation environment. Analyze the use of effective procedures and policies to recognize and prevent the intentional act of humans to cause harm or disruption through aviation.

AVSC 4321. Certification of Airports. 3 Credit Hours.

Discuss the requirements and procedures in seeking government approvals for airport certification as it applies to general aviation and air carrier operations. Students are advised to take a writing intensive course prior to enrolling. Prerequisite(s): AVSC 3321 and acceptance into Aviation Management program.

AVSC 4333. General Aviation and Corporate Business Aviation. 3 Credit Hours.

Study the business skills and knowledge needed to operate a small aviation business. Gain an understanding of the operational managerial aspects of general aviation and corporate business aviation.

AVSC 4344. Historical Application of Aircraft Design. 3 Credit Hours.

Study the evolution, concepts, and design aspects used in aircraft development. Construct and evaluate scale models of historical aircraft. Special emphasis on aerodynamic efficiency and aircraft manufacturing.

AVSC 4350. Aviation Seminar. 3 Credit Hours.

Explore selected topics in aviation. May be repeated for credit when topics vary. Prerequisite(s): Permission of department chair.

AVSC 4360. Aviation Maintenance Management – Global Perspective. 3 Credit Hours.

Analyzes the global aviation management field with a trend analysis differentiating the divergent methodologies of maintenance management between airlines, cultures, international law, parts acquisition and labor. Prerequisite(s): Admission to program.

AVSC 4384. Aviation Internship. 3 Credit Hours.

Experience supervised Aviation Management in a fixed base operations, regional/major airline operations or municipal airport management operations setting. Analyze management problems, develop resolution techniques, and understand customer service as an important phase of the management process. Prerequisite(s): 12 hours of upper-level aviation courses, AVSC 3304 and permission of instructor. Field assignment fee \$75.

AVSC 4388. Aviation Problems. 1-3 Credit Hours.

Explore selected topics in aviation. May be repeated with permission of the department chair. Prerequisite(s): Permission of department chair.

AVSC 4395. Capstone – Professional Pilot (Crew Resource Management). 3 Credit Hours.

Practice the knowledge, skills, attitudes, and abilities attained in the program in demonstrating and utilizing Crew Resource Management (CRM), a teamwork approach to situational awareness and management. Prerequisite(s): Senior standing and acceptance in Professional Pilot program.

AVSC 4396. Capstone – Aviation Management (Emergency Preparedness). 3 Credit Hours.

Practice the knowledge, skills, attitudes, and abilities attained in the program in demonstrating emergency preparedness in simulated emergency scenarios. Prerequisite(s): Senior standing and acceptance in Aviation Management program.

Biology (BIOL)

BIOL 3302. Wildlife Biology. 3 Credit Hours.

Learn the basic biological principles that govern wildlife biology. Incorporate wildlife biology and ecology to understand the conservation and management of wildlife. Prerequisite(s): BIOL 1407.

BIOL 3315. Advanced Physiology. 3 Credit Hours.

Study human physiology at the biochemical, cellular, tissue, and organ level. Designed for upper division science and nursing majors. Prerequisite(s): BIOL 1406.

BIOL 3318. Animal Physiology. 3 Credit Hours.

Explore mammalian physiology as well as other selected vertebrate taxa. Special emphasis on organ-system physiology, and cellular and molecular mechanisms in order to present a current view of physiological principles. Highlights the nervous, muscular, cardiovascular, respiratory, renal, digestive, and endocrine physiology. Prerequisite(s): BIOL 1407.

BIOL 3341. Ornithology. 3 Credit Hours.

An overview of the biology of birds, including their evolution, classification, identification, behavior, ecology, anatomy, and physiology. Prerequisite(s): BIOL 1407.

BIOL 3380. Research Methods. 3 Credit Hours.

(WI) Explore the general principles and procedures of scientific research with an emphasis on the use of scientific literature and the methods of research. Prerequisite(s): Junior standing.

BIOL 3400. Introduction to Biology. 4 Credit Hours.

Gain an understanding of basic principles and unifying concepts in biology. Topics include scientific inquiry, basic biochemistry, cell structure and function, genetics, evolution, diversity of life, and anatomy and physiology. For non-biology majors. Laboratory sessions will provide experience with selected biological principles and practices.

BIOL 3401. Ecology. 4 Credit Hours.

(WI) Explore interactions at the organismal, population, and community level, and apply ecological theory to current environmental problems. Emphasis in the laboratory and field exercises is placed on the ecological methodology and the application of these methods. Students are required to use various statistical methods to analyze and interpret the data. Lab fee: \$30. Prerequisite(s): BIOL 1407.

BIOL 3420. Entomology. 4 Credit Hours.

Explore the largest and most diverse group of animals on our planet. Examining the physiology, morphology, life histories, diversity, ecology, and evolution of insects. The laboratory focuses on the anatomy and classification of insects. Insect collection is required. Lab fee: \$30. Prerequisite(s): BIOL 1407.

BIOL 3430. Botany. 4 Credit Hours.

Analyze the internal organization of plants, particularly angiosperms, with an emphasis on understanding anatomy from a structure-function standpoint. Lab fee: \$30. Prerequisite(s): BIOL 1407.

BIOL 3440. Invertebrate Zoology. 4 Credit Hours.

Learn the biology, ecology, taxonomy and comparative anatomy of animals within the invertebrate phylum. Analyze live and preserved specimens in the field and laboratory. Prerequisite(s): BIOL 1407.

BIOL 3445. Comparative Vertebrate Zoology. 4 Credit Hours.

Learn the biology, ecology, taxonomy, and comparative anatomy of animals within the vertebrate phylum. Analyze live and preserved specimens in the field and laboratory. Lab fee: \$30. Prerequisite(s): BIOL 1407.

BIOL 3452. Principles of Genetics. 4 Credit Hours.

Explore the mechanisms of inheritance, from bacteria to humans, as well as mutations and phenotypes, Mendelian genetics, population genetics and evolution, and complex inheritance. Lab fee: \$30. Prerequisite(s): BIOL 1407.

BIOL 3471. Microbiology. 4 Credit Hours.

Introduction to modern microbiology with emphasis on prokaryotes; includes microbial cell structure, function, and physiology; genetics, evolution, and taxonomy; bacteriophages and viruses; pathogenesis and immunity; and ecology and biotechnology. The laboratory will focus on microbial growth and bacterial identification. Three hours of lecture and three hours of laboratory. Prerequisite(s): BIOL 1407.

BIOL 4301. Conservation Biology. 3 Credit Hours.

Examine conservation of biological diversity at gene, population, species, ecosystem, and global levels. Provides an overview of conservation biology including the causes and consequences of biodiversity loss, conservation approaches and strategies, and the ecological and evolutionary theory underlying these approaches. Prerequisite(s): BIOL 3401.

BIOL 4302. Restoration Ecology. 3 Credit Hours.

Explore the fundamental principles of ecological restoration. Survey the discipline, and the scientific, ethical, and philosophical underpinnings that guide ecological restoration. Principles of ecosystem ecology are introduced to provide an understanding of ecosystem processes across landscapes and within specific restoration sites. Prerequisite(s): BIOL 3401.

BIOL 4346. Animal Behavior. 3 Credit Hours.

Study vertebrate and invertebrate animal behavior. Basic topics include animal learning, mechanisms of behavior, foraging, competition, defense, aggression, sensory systems, communication, mating systems and parental care behavior. Prerequisite(s): BIOL 1407.

BIOL 4372. Virology. 3 Credit Hours.

Study viruses with an emphasis on biology, diversity, and medical importance. Focusing primarily on human and animal viruses, and the molecular and clinical aspects of virology. Prerequisite(s): BIOL 4470.

BIOL 4373. Immunology. 3 Credit Hours.

Explore the basic biological concepts of immunology. Study immunology from the viewpoints of developmental biology, molecular biology, genetics, biochemistry, microbiology, anatomy, and medicine. Prerequisite(s): BIOL 4470.

BIOL 4380. Evolution. 3 Credit Hours.

Examine evolutionary theory, including the historical development of components of evolutionary theory, population level microevolution, the fossil record, and macroevolution. Prerequisite(s): BIOL 1407 and BIOL 3452.

BIOL 4389. Special Topics in Biology. 1-3 Credit Hours.

Examine selected topics in biology. Course may be repeated for credit when topics vary. Prerequisite(s): Permission of department chair.

BIOL 4390. Undergraduate Research Experience. 3 Credit Hours.

Gain valuable research experience in the laboratory or field in this Course-based Undergraduate Research Experience (CURE) course. Students will work with faculty to design a research experiment, collect and analyze data, and interpret and present the results of the study. Field Experience Fee \$150. Prerequisite(s): Permission of instructor.

BIOL 4395. Biology Capstone. 3 Credit Hours.

(WI) Capstone seminar focusing on life science research conducted by seniors and faculty. Prerequisite(s): BIOL 3380 and senior standing. Materials Fee ETS Field Exam in Biology \$25.

BIOL 4451. Bioinformatics. 4 Credit Hours.

Study how genomic sequence and its variations affect phenotypes. Focuses on the information available from DNA sequencing projects, ranging from the sequences of individual genes to those of entire genomes. Learn analytical techniques that can be used to evaluate sequence data, and examples of their biological significance. Prerequisite(s): BIOL 4470 and BIOL 4471.

BIOL 4470. Cell Biology. 4 Credit Hours.

Study the cell at the structural, functional, and molecular levels. Emphasis is placed on the molecular mechanisms of cell metabolism, growth, division, and communication. The laboratory focuses on cell structure and laboratory techniques. Lab fee: \$30. Prerequisite(s): BIOL 1407.

BIOL 4471. Molecular Biology. 4 Credit Hours.

Study modern molecular biology with an emphasis on gene structure and activity, and the biochemistry related to understanding the functions of the gene. Prerequisite(s): BIOL 1407 and BIOL 4470.

BIOL 4475. Proteomics. 4 Credit Hours.

Study the theory and practice of current techniques of protein analysis including separation, quantification, sequencing, and identification. Current research advances and case studies are also examined. Prerequisite(s): BIOL 4470.

Business (BUSI)

BUSI 3301. Professionalism and Communication in Business. 3 Credit Hours.

(WI) This course is an introduction to the study of business, with exposure to each of the major business disciplines and professions. Students will be introduced to the functional areas of business and begin to plan their own professional development and careers. Students will focus on developing the skills necessary to communicate effectively and professionally in the business world, including written, oral, and digital/virtual communications, as well as the use of common software tools that support them, including Microsoft Word, PowerPoint, and Web-based meeting platforms. Students will practice communicating effectively to a variety of audiences and in a variety of professional contexts and formats, and will learn how to make use of available internal and third-party career and placement services. Completion of this course is required for all College of Business Administration students during the first semester of enrollment.

BUSI 3311. Business Statistics. 3 Credit Hours.

Study descriptive statistics and the foundations of inferential statistics, including statistical methods of sampling, classifying, analyzing, and presenting numerical data. Learn frequency and sampling distributions, averages, dispersion, hypothesis testing and analyzing up to two populations and population proportions. Additionally, students will be introduced to ANOVA, correlations, regression and Chi-Square analyses. Students who have already taken BUSI 2305 are not eligible to receive credit for this course also. Prerequisite(s): Any collegiate math course.

BUSI 3332. Legal Environment of Business. 3 Credit Hours.

The study of principles of law relating to the development and sources of law, dispute resolution, ethics, torts, intellectual property, criminal law, contracts, agency, business entity formation, and international law issues in the 21st century. Students who have already taken BUSI 2301 are not eligible to take BUSI 3332 for credit.

BUSI 3344. Introduction to the Global Business Environment. 3 Credit Hours.

Broad coverage of key concepts and issues in the modern global business environment. Emphasis will be placed on political, financial, cultural and regulatory effects on the operations of businesses in the global environment.

BUSI 4301. Business Ethics and Corporate Social Responsibility. 3 Credit Hours.

Examine contemporary organizational ethical issues and challenges. Analyze stakeholder management and sustainability, with emphasis on the manager's corporate social responsibilities to a wide variety of stakeholders. Study ethical dilemmas, decision-making frameworks and approaches to corporate social responsibility. Service Learning may be a required component. Prerequisite(s): BUSI 3301 and either MGMT 3350 or MGMT 3301.

BUSI 4320. Fundamentals of Real Estate. 3 Credit Hours.

Explore the nature of real estate and how ownership is held. Examine legal descriptions, encumbrances and liens, title transfer, title records. Analyze concepts of home ownership, buying, selling and financial real estate, closing the real estate transaction, and real estate taxes, and other issues in liens, leases and landlord tenant laws.

BUSI 4333. Business Law II. 3 Credit Hours.

Study principles of law concerning agency, employment, partnerships, corporations, bankruptcy, secured transactions, creditor/debtor rights, insurance, real and personal property. Examine laws impacting the regulatory environment of business such as consumer protection, environment, anti-trust, and securities law. Prerequisite(s): Junior standing.

BUSI 4334. Employment Law. 3 Credit Hours.

Study laws relating to employment. Explore employer-employee relationships, regulation of discriminatory practices in employment (Title VII, the 1964 Civil Rights Act, and other statutes), regulation of the employment environment, and testing and evaluation of employee job performance. Prerequisite(s): BUSI 3332 or MGMT 3302.

BUSI 4345. International Business Law. 3 Credit Hours.

Study international commercial business and the legal environment. Learn traditional international concepts of treaties, sovereignty, public and private laws, customs laws, licensing, franchising, environmental and employment law. Special emphasis on contracts for international sale of goods (CISG), GATT and WTO Treaties, NAFTA, regional trade areas.

BUSI 4354. Global Business Practices. 3 Credit Hours.

Study basic international business concepts, cultural literacy, and discipline specific content applied to practical experiences and activities related to the visited foreign country. A required study abroad at the student's expense is required. Student may complete a maximum of six hours of COBA sponsored study abroad toward degree completion. Prerequisite(s): Junior or senior standing. BUSI 4354, MGMT 4356, or MKTG 4356 may not be taken concurrently. Field assignment fee of \$75.

BUSI 4359. Business Strategy. 3 Credit Hours.

(WI) Integrate and apply concepts and principles of accounting, economics, finance, management, marketing, and quantitative methods towards developing competitive advantage. Practice strategic problem solving and business decision making. Appropriate for senior business majors during their last semester. Prerequisite(s): ACCT 2301, ACCT 2302, ECON 2301, FIN 3301, BUSI 3311 (or BUSI 2305), MGMT 3350, and MKTG 3301.

BUSI 4361. General Business Seminar. 3 Credit Hours.

Study selected topics in dealing with problems or unique needs of business. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. May be repeated for credit as topics vary. Prerequisite(s): Permission to enroll is required.

BUSI 4363. Small Business Consulting. 3 Credit Hours.

Study selected problems in diagnosing and analyzing problems of small business clients, and prepare formal written reports and recommendations for client implementation. Engage in independent research, reading and discussions under the personal direction of the instructor. Topics may vary according to student need. Prerequisite(s): Senior standing and permission of department chair.

BUSI 4388. Business Problems. 1-3 Credit Hours.

Study selected problems in business. Engage in independent research, reading and discussions under the personal direction of the instructor. Topics may vary according to student need. May be repeated with permission of the department chair. Prerequisite(s): Senior standing and permission of department chair.

BUSI 4090. Business Capstone Assessment. 0 Credit Hours.

This course is to be taken concurrently with BUSI 4359 for all undergraduate business majors. The capstone assessment is administered by the College of Business Administration to ensure the quality and continuous improvement of its undergraduate business programs.

BUSI 5090. Business Comprehensive Examination. 0 Credit Hours.

Study and take the business examination for non-thesis students. Register for the comprehensive examination during final semester of graduate coursework concurrently with BUSI 5359, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis students do not take this examination.

BUSI 5310. Business Research Methods. 3 Credit Hours.

Study nature, scope, and significance of business research and research methodology. Develop primary research methods with applications to specific problems. Learn the place of quantitative methods in research and individual investigation, and report on current problems in a selected field of interest. Prerequisite(s): BUSI 3311 or approved leveling in statistics.

BUSI 5312. Managerial Statistics. 3 Credit Hours.

Explore applied descriptive and inferential statistical calculations. Examine statistics as a decision-making tool under uncertainty, probability, confidence intervals, hypothesis testing, ANOVA, correlation, regression, and statistical process control in the context of business and organization. Prerequisite(s): BUSI 3311 or approved leveling statistics.

BUSI 5315. International Business Law. 3 Credit Hours.

Study international commercial business and the legal environment in which it operates. Explore traditional international concepts of treaties, sovereignty, public and private laws, customs laws, licensing, franchising, environmental, and employment law. Special emphasis on contracts for international sale of goods (CISG), GATT and WTO Treaties, NAFTA, regional trade areas.

BUSI 5354. Global Business Practices. 3 Credit Hours.

Study basic international business concepts, cultural literacy, and discipline specific content applied to practical experiences and activities in the visited foreign country. A study abroad at the student's expense is required. Graduate students will be required to complete an extensive research project in addition to other course requirements. Student may complete a maximum of six hours of COBA sponsored study abroad toward degree completion. Prerequisite(s): Admission into a COBA graduate program and permission of instructor. Field assignment fee of \$75.

BUSI 5359. Business Strategy Seminar. 3 Credit Hours.

Develop an integrated view of the business functions addressed in the MBA core curriculum. Apply case analysis methodology for evaluating complex business situations, developing strategic alternatives, and recommending effective solutions. A culminating capstone interdisciplinary case study project is a required part of the course. Students must make a B on this project to pass the course and a B in the course to graduate. Prerequisite(s): ACCT 5303, FIN 5307, MGMT 5301 and MKTG 5308. A student may take one of these concurrently with the permission of the instructor. A materials fee of \$45 is required for needed course materials.

BUSI 5388. Business Problems. 1-6 Credit Hours.

Study selected problems in business, and become acquainted with current research being conducted within the specific area of interest. Participate in directed reading of sources selected in concert by the student and professor. Engage in independent research, reading and discussions under the personal direction of the instructor. Topics may vary according to student need. Prerequisite(s): Permission of department chair.

Chemistry (CHEM)

CHEM 3415. Analytical Chemistry. 4 Credit Hours.

Explore the principles and applications of gravimetric and volumetric analysis. Learn the theory for selecting analytical methods and separation techniques—precipitations, extraction and complexation, sources of error, data handling, and error analysis. Lab fee: \$30. Prerequisite(s): CHEM 2425 or equivalent.

CHEM 4415. Instrumental Analysis. 4 Credit Hours.

Examine chemical analysis utilizing electronic instrumentation. Learn spectroscopy techniques such as UV/VIS, molecular fluorescence, infrared, Rama, Atomic emission, atomic absorption, atomic fluorescence, NMR and mass spectrometry. Explore chromatographic and electrochemical techniques, such as ion selective electrodes, polarography, coulometry, amperometry, and conductance. Prerequisite(s): CHEM 3415 or equivalent.

CHEM 4430. Biochemistry I. 4 Credit Hours.

Study molecular components of the cell such as amino acids, proteins, enzymes, sugars, lipids, lipoproteins, nucleotides, vitamins and coenzymes. Learn energy yielding processes such as the ATP cycle, glycolysis, tricarboxylic acid cycle, the phosphogluconate pathway, redox enzymes and electron transport, oxidative phosphorylation, fatty acid metabolism, amino acid degradation and photosynthesis. First course in a two semester sequence. Lab fee: \$30. Prerequisite(s): CHEM 2425 or equivalent.

CHEM 4431. Biochemistry II. 4 Credit Hours.

Study the synthesis of carbohydrates, lipids, amino acids and nucleotides, the conversion of biochemical energy into motility, membrane transport mechanisms, hormones and the regulation of DNA, protein synthesis, genes and their regulation, and systemic morphogenesis. Second course in a two semester sequence. Lab fee: \$30. Prerequisite(s): CHEM 4430 or equivalent.

CHEM 4451. Bioinformatics. 4 Credit Hours.

An introduction for understanding how genomic sequence and its variations affect phenotypes. Will focus on the information available from DNA sequencing projects, ranging from the sequences of individual genes, to those of entire genomes. Students will learn analytical techniques that can be used to evaluate sequence data, and examples of the biological significance of such analyses. Prerequisite(s): BIOL 4470 and BIOL 4471.

Communications (COMM)

COMM 3301. Business & Prof Speaking. 3 Credit Hours.

A study of verbal and nonverbal communication as it functions in business and professional organizations. Special emphasis will be given to developing oral language proficiency, interviewing, small decision-making groups, oral reporting, and organizational communication.

COMM 3303. Debate. 3 Credit Hours.

An introduction to the principles of argumentation and debate. Subject material will include research, evidence, reasoning, case construction, refutation, and delivery. Classroom debating will provide students with opportunities to observe and participate in competitive debating. This course is particularly applicable to those anticipating study in prelaw. Prerequisite(s): SPCH 1311, SPCH 1315 or permission of department chair.

COMM 3304. Interpersonal Communication. 3 Credit Hours.

A course designed to improve individual communication skills relevant to human relationships. The development and maintenance of interpersonal (one-to-one) relations are examined, with special emphasis on identifying and correcting communication breakdown. A portion of the course will be devoted to exercises designed to improve interpersonal skills. Prerequisite(s): SPCH 1311 or COMM 3301 or permission of department chair.

COMM 4304. Organizational Communication. 3 Credit Hours.

An advanced study of communication as it takes place in business and industrial settings. Special attention will be given to managerial communication, communicator style, channels and networks, and organizational communication consulting. Prerequisite(s): COMM 3301.

COMM 4306. Group Process/Decision Making. 3 Credit Hours.

A study of small group theory and process. Special attention will be given to leadership, organization, group analysis, and interaction. Students will observe and participate in small group discussions on contemporary issues. Prerequisite(s): SPCH 1311 or COMM 3301 or COMM 3304 or permission of department chair.

COMM 4389. Special Topics in Communication. 1-3 Credit Hours.

This course provides students the opportunity to examine a topic as it relates to the interests and methodologies of communication. May be repeated when the topic varies.

COMM 5321. Essentials of Mass Media. 3 Credit Hours.

This is a study of the ascension to power of the mass media and the current devices and practices used in the creation of a culture of online, and other media-based connections. Areas of study focus on religion & denominations, individualism, intellectualism, the Internet, races and cultures, political groups, ethical practices, science, education, the culture and economy of urban areas, etc.

COMM 5322. Politics and Mass Media. 3 Credit Hours.

This course is a study of mass media and their creation of a culture of online and other media-based connections to and with politics, and includes specific groups focused on religion & denominations, individualism, intellectualism, the Internet, race and culture, politics, science, education, urban areas, etc.

COMM 5323. Social Media as Mass Media. 3 Credit Hours.

This course offers a study of mass media and the creation of online social cultures, communication networks, and of the "other" - other groups formed from religions & denominations, or based on individualism, intellectualism, the Internet, races and cultures, political groups, foods, drugs, science, education, social interaction, urban areas, etc.

COMM 5324. Religion and Mass Media. 3 Credit Hours.

This course offers a study of the media and its connections to the media's creation of a culture of online and other mass media-based connections to and with religion, which includes a variety of religions and denominations, individualism, intellectualism, the Internet, other races and cultures, political groups, science, education, the socioeconomics of urban areas, etc.

COMM 5325. Fear Culture and Mass Media. 3 Credit Hours.

This course offers a study of mass media and its connections to the creation of a culture of fear, of the other - other religions & denominations, individualism, intellectualism, the Internet, other races and cultures, political groups, foods, drugs, science, education, urban areas, etc.

COMM 5329. Topics in Mass Media. 3 Credit Hours.

This course offers an in-depth study of particular issues within media studies. Topics will vary from year to year. A more specific course description will introduce the particular focus of a class. This course may be repeated when the topic changes.

Computer Information Systems (CIS)

CIS 3300. Computer Technology and Impact. 3 Credit Hours.

Explores computer technology with special attention to its impact on home, work, and school. Many topics are presented: hardware and software fundamentals, essential applications, telecommunications, internet, artificial intelligence, programming, and the future of these technologies. Students work with word processing, spreadsheet, database, and presentation software; other applications; and a programming language. No prior computer experience is necessary. Students may not receive credit for BCIS 1305 or COSC 1301, and CIS 3300.

CIS 3301. Business Analysis with Spreadsheets. 3 Credit Hours.

Examine theory and application of microcomputer technology applied in accounting, finance, management, and other business disciplines. Develop creative initiative, and study basic analytical skills in performing common business tasks. Credit for both CIS 3301 and ACCT 3301 will not be awarded.

CIS 3302. Introduction to Business Analytics. 3 Credit Hours.

Examine the theory and application of business analytics applied in accounting, finance, marketing, management, and other business disciplines. Develop basic analytical skills to gain insights and make better decisions. Special emphasis on data management and wrangling, data visualization and summary measures, probability and probability distributions, statistical inference, and regression analysis.

CIS 3303. Programming Logic and Design. 3 Credit Hours.

This course introduces computer programming and problem solving in a structured program logic environment. Study the logic of decision-making, nested looping, multidimensional arrays, implementation of the structure theorem and Boolean algebra. Utilize structured flowcharts, structured pseudocode, hierarchy charts and decision tables, in order to document logical problem solutions. The course focuses on business problem solving and does not count as a programming language. No prior programming experience is necessary.

CIS 3304. Topics in Computer Information Systems. 3 Credit Hours.

Examine selected topics in programming languages, programming techniques, or job control languages. May be repeated once for credit as topics vary. Prerequisite(s): Varies with topic.

CIS 3305. Operating Systems Theory and Practice. 3 Credit Hours.

Study the history, development, and principles of computer operating systems and their variants in mainframe, minicomputer, server, and microcomputer application environments. Explore preferred operating systems representing various hardware environments. Special emphasis on related software issues, programming capabilities, and job control languages. Prerequisite(s): CIS 3303 or COSC 1315 or permission of department chair.

CIS 3306. Data Visualization. 3 Credit Hours.

Data visualization makes it easier to understand the data. The goal of this course is to introduce students to data visualization including both the principles and techniques. Students will learn the value of visualization, specific techniques in information visualization and scientific visualization, and how to understand how to best leverage visualization methods.

CIS 3307. Application Project with Laboratory. 3 Credit Hours.

Develop and document a software product using a formal software development process. Projects of value are actively sought from local businesses, governments, or nonprofit organizations when possible. May be repeated for credit when topics change. Prerequisite(s): Varies with topic.

CIS 3312. Technical Support Management and Operations. 3 Credit Hours.

Study the scope, significance, job skills, training, software availability, and support problems of technical support within the technology industry. Develop technical support skills, with an emphasis on the use of resources, troubleshooting, and customer relations.

CIS 3315. Web Site Development and Design. 3 Credit Hours.

This course introduces students to basic web design using HTML and CSS. The course does not require any prior knowledge of HTML or web design. Students learn how to plan and design effective web pages; implement web pages by writing HTML and CSS code; enhance web pages with the use of page layout techniques, text formatting, graphics, images, and multimedia; and produce a functional, multi-page website.

CIS 3330. C++ Programming. 3 Credit Hours.

Study structured C++ programming using microcomputers. Special emphasis on syntax, operators, functions, standard input/output, arrays, pointers, and structures in C++ programming. Prerequisite(s): COSC1309 OR COSC 1336 or COSC 1315 or CIS 3303 or concurrent enrollment or permission of department chair.

CIS 3331. Visual Basic Programming. 3 Credit Hours.

Study visual application development using Visual Basic and the native integrated development environment. Examine logic, working with forms, sequential and direct file access, and scope and visibility rules. Analyze problems within Visual Basic and develop programming solutions. Prerequisite(s): COSC1309 OR COSC 1336 or COSC 1315 or CIS 3303 or concurrent enrollment or permission of department chair.

CIS 3332. Java Programming. 3 Credit Hours.

Study applications development using Java. Examine identifiers and reserved words, objects and primitive data, program statements, arrays and vectors, exceptions and I/O streams, and graphical user interfaces. Analyze problems within Java and develop programming solutions. Prerequisite(s): COSC1309 OR COSC 1336 or COSC 1315 or CIS 3303 or concurrent enrollment or permission of department chair.

CIS 3340. Advanced C++ Programming. 3 Credit Hours.

Study C++ programming language. Examine advanced features of C++ such as classes, friends, abstraction, operator overloading, inheritance, polymorphism, templates, and object oriented programming techniques. Analyze problems within C++ and develop programming solutions. Prerequisite(s): CIS 3330 or permission of department chair.

CIS 3341. Advanced Visual Basic Programming. 3 Credit Hours.

Study Visual Basic programming techniques, including declaration and manipulation of arrays, accessing database files, and advanced data handling techniques. Analyze advanced problems in Visual Basic and develop programming solutions. Prerequisite(s): CIS 3331 or permission of department chair.

CIS 3342. Advanced Java Programming. 3 Credit Hours.

Study Java programming language. Examine advanced Java capabilities, including class features, error handling, security techniques, Java streams, JavaBeans, database connectivity, Java servlets, Java Server pages, and advanced object-oriented programming techniques. Analyze advanced Java problems and develop programming solutions. Prerequisite(s): CIS 3332 or permission of department chair.

CIS 3343. C# Programming for Windows and the Web. 3 Credit Hours.

Use C# programming language to create Windows applications in the Internet and intra-network environment. Explore object-oriented design, client-server interaction, event-driven programming, graphical user interfaces, distributed data, and distributed applications. Prerequisite(s): CIS 3330 or CIS 3331 or CIS 3332 or permission of the department chair.

CIS 3345. Topics in Personal Computer Software and Application. 3 Credit Hours.

Examine selected personal computer applications and software packages. Explore the operation and usefulness of commonly available personal computing software solutions. May be repeated once for credit as topics vary. Prerequisite(s): Varies with topic.

CIS 3346. Personal Computer Technology. 3 Credit Hours.

Examine the technology and hardware operations in microcomputers, their peripherals, and operating system software. Special emphasis on hardware configuration and selection, installation and test procedures, and routine maintenance.

CIS 3347. Data Communications and Infrastructure. 3 Credit Hours.

A study of telecommunications architecture, industry standards and communications protocols, the placement of networking devices and components, transmission media selection, logical and physical topologies, voice and data transmission, and structured cabling for local area networks (LANs) and wide area networks (WANs). Application exercises will include evaluating alternatives available in hardware, software, and transmission facilities, design integration, selection and implementation of communications and networking solutions. In addition, students will explore the current and future impact and directions of these technologies. Students will complete an architecture design project that will include required components and address services as specified in an industry specific Request for Proposal (RFP).

CIS 3348. Networking Architecture and Design. 3 Credit Hours.

Examine industry standards and communications protocols in networking. Learn placement of networking devices, transmission media selection, topologies, data transmission, and structured cabling for LANs and WANs. Develop network designs as specified in an industry specific Request for Proposal (RFP). Prepare and present a design proposal in response to an RFP, and installation, configuration, testing and troubleshooting of WAN/LAN wiring interface technologies. Prerequisite(s): CIS 3347 or permission of department chair.

CIS 3351. Data Structures. 3 Credit Hours.

Study theory and applications of commonly used computer data structures, files, file organization and access methods, databases, and other storage and retrieval methods. Prerequisite(s): CIS 3340 or CIS 3341 or CIS 3342 or CIS 3343 or concurrent enrollment or permission of department chair.

CIS 3360. Ethics in Computing. 3 Credit Hours.

(WI) Examine personal and contemporary organizational ethical issues and challenges in the design, development and the use of computing technologies in a global environment. Special emphasis on the philosophical basis for computer ethics, reliability and safety of computer systems, protecting software and other intellectual property, computer crime and legal issues, and professional codes of ethics (AIS, ACM, IEEE etc.).

CIS 3361. Introduction to Computer Forensics. 3 Credit Hours.

The course focuses on clear and authoritative instructions about the field of computer forensics as it applies to the investigative process; from the collection of digital evidence to the presentation of Computer Forensic Examination findings in a court of law. Upon successful completion of the course, students will have a basic understanding of the computer forensic process, the scientific procedure involved in accounting, law enforcement, and computer sciences. Topics also include the science of computer forensics and how it relates to and is utilized within the judicial system of the United States.

CIS 3365. System Analysis and Design. 3 Credit Hours.

Examine systematic analysis, design, and implementation of software systems with special emphasis on the processes and skills used in the first four stages of the System Development Life Cycle. Analyze traditional and current methodologies in design, including computer aided analysis and design tools. Prerequisite(s): CIS 3330 or CIS 3331 or CIS 3332 or COSC 1320 or COSC 1336 or permission of department chair.

CIS 3387. Cooperative Education. 3 Credit Hours.

Develop and apply relevant CIS concepts in a work environment. Work in an approved professional CIS setting for approximately 300 hours before credit will be granted. To remain in the program, the student must remain in good standing with the university and employer. May be repeated once for credit. Prerequisite(s): Permission of co-op coordinator and department chair, and formal application to the program. Field experience fee \$75.

CIS 3389. Special Topics in Computer Information Systems. 3 Credit Hours.

Examine selected issues, products, and technology current to computer information systems. This course may be repeated once for credit. Prerequisite(s): Varies with the topic or Permission of department chair.

CIS 4090. Computer Information Systems Capstone Assessment. 0 Credit Hours.

This course is to be taken concurrently with CIS 4360 for all undergraduate computer information systems and Information Technology majors. The capstone assessment is administered by the College of Business Administration to ensure the quality and continuous improvement of its undergraduate business programs. Corequisite: CIS 4360.

CIS 4301. Database Theory and Practices. 3 Credit Hours.

Examine database concepts and structures, and understand file and data management principles underlying database construction. Learn fundamental types of database models, with emphasis on relational databases and major non-relational forms. Develop skills in analysis, design, development, and optimization of working database applications on a variety of problems. Prerequisite(s): 12 hours of CIS courses or permission of department chair.

CIS 4302. Web & Social Analytics. 3 Credit Hours.

Explore the key concepts, techniques and practices of web analytics to collect and analyze digital data and user "digital footprints" for improving online marketing, strengthening relationships with customers & making data-driven strategic planning and decision making Prerequisite(s): CIS 3302 or Permission of Department Chair.

CIS 4303. Data Mining. 3 Credit Hours.

Examine the theory and application of data mining in accounting, finance, marketing, management, and other business disciplines. Develop basic analytical skills to gain insights and make better decisions. Particular emphasis on supervised data mining, including k-nearest neighbors, naïve Bayes, and decision trees; unsupervised data mining; and forecasting with time series data. Prerequisite(s): CIS 3302 or CIS 4301.

CIS 4307. Topics in Networking. 3 Credit Hours.

Explore selected topics in alternative or innovative network software packages, including network focused tools, utilities, and operating systems. Special emphasis on an exploration of the usefulness and operation of the topic of study. May be repeated once for credit as topics vary. Prerequisite(s): Varies with topic.

CIS 4308. Advanced Programming Language. 3 Credit Hours.

Develop programming proficiency in a modern programming language. May be repeated as topics vary. Prerequisite(s): Varies with topic or Permission of department chair.

CIS 4309. Decision Support Methods. 3 Credit Hours.

Use computer-based decision, analysis, planning, and presentation methods in the context of management strategy and problem-solving policy. Apply software tools such as databases, spreadsheets, statistical graphics, and presentation programs for extracting, organizing and presenting information in support of management decision making. Prerequisite(s): COSC 1301 or CIS 3300, or ACCT 2302 or ACCT 2402 or MGMT 3301 or FIN 3301 or MKTG 3314 or BUSI 3311, or permission of department chair.

CIS 4310. Artificial Intelligence. 3 Credit Hours.

A study of AI programming techniques and tools. Topics include Expert Systems, Neural Networks, Genetic Algorithms, Automatic Programming, heuristic search, and others. Prerequisite(s): CIS 3330 or CIS 3331 or CIS 3332 or permission of department chair.

CIS 4311. Mobile Application Development. 3 Credit Hours.

This course explores the design and development of mobile applications such as Android, including resources, user interfaces, services, alarms, maps and location based services. Prerequisite(s): CIS 3330 or CIS 3331 or CIS 3332 or CIS 3343 or Permission of Department Chair.

CIS 4335. UNIX Systems Administration. 3 Credit Hours.

Examine the underlying conceptual considerations of the UNIX operating system and its variants in mainframe, minicomputer, server and microcomputer application environments. Explore memory and process management, multi-programming and processing, interrupt structure, and parallel processing mechanisms and procedures. Special emphasis on practical application of configuration and security of selected UNIX systems. Prerequisite(s): CIS 3305 or 12 hours of CIS courses or permission of department chair.

CIS 4340. Algorithm Design and Analysis. 3 Credit Hours.

Examine computer algorithms, and learn to select appropriate algorithms for tasks within specific computing environments. Study searching and sorting algorithms for their importance in computing. Special emphasis on efficiency, readability, maintainability, advanced design and analysis techniques, advanced data structures, and graph algorithms. Prerequisite(s): CIS 3351 or concurrent enrollment or permission of department chair.

CIS 4341. Information Technology Security and Risk Management. 3 Credit Hours.

Examine the fundamental principles and topics of Information Technology Security and Risk Management at the organizational level. Learn critical security principles and best practices in order to plan, develop and perform security tasks. Special emphasis on hardware, software, processes, communications, applications, and policies and procedures with respect to organizational IT Security and Risk Management. Prerequisite(s): 9 hours of CIS Courses or Permission of the department chair.

CIS 4342. Computer Security Principles and Practices. 3 Credit Hours.

Explore current principles, theories, and concepts behind computer security. Examine basic methods and practices of security as it affects modern business operations. Special emphasis on cryptography, authentication, access control, database security, malware, intrusion detection, firewalls, security policy and management, software and operating system security, auditing and legal aspects of cyber security. Prerequisite(s): 9 hours of CIS courses or permission of department chair.

CIS 4343. Advanced Systems and Analysis. 3 Credit Hours.

Examine data and process decomposition, and modeling in advanced systems analysis. Study the CASE tools which support models and interaction analysis of process and data. Explore the enterprise-wide view of system analysis, and understand the theory behind and the generation of normalized relational database tables. Prerequisite(s): CIS 3365 and CIS 4301 or permission of department chair.

CIS 4345. Network and Systems Security. 3 Credit Hours.

Studies the issues of Network and Systems Security as a continuous process involving analysis, implementation, evaluation and maintenance. Topics will include addressing computer-related risks, case analysis, and future trends. The course will provide approaches, techniques, and best practices for securing modern electronic data systems and networks. Areas covered include information and message security, database and file integrity, physical security, security management, security risk analysis, and encryption/cryptography. Will include practical laboratories in the analysis, and configuration of networking security protocols and tools. Prerequisites: CIS 3347 or approval of Department Chair. Lab fees: \$95.

CIS 4346. Applied Security. 3 Credit Hours.

This course will validate and develop in-depth hands on knowledge about the operation and defense from malicious attacks. It builds on previous course work to understand rapid recovery and defense of systems from attack. Students develop knowledge about system vulnerabilities and the process of penetration of systems as a way to evaluate the security of systems. Specific topics include social engineering, malware and malicious software usage and identification, network security tool familiarization and system hardening. Prerequisite(s): CIS 3347 and (CIS 4341 or CIS 4342) or approval of department chair. Lab Fee: \$95.

CIS 4348. Security Trends and Malware Analysis. 3 Credit Hours.

This course analyzes and investigates security threats and ethical hacking methods. It will introduce students to modern malware analysis techniques through a detailed examination of malware, virus, and malicious code operation by examining case studies and hands-on interactive analysis of real world samples. The course will also examine in detail current trends in the threat environment and the most current attack exploits. Student will use a variety of methods to investigate current security threats and their mitigation. Topics include malware morphology, disassembly of malware, ethical hacking methods on systems including penetration, and trends in the threat-scape. Prerequisite(s): CIS 4345 or CIS 4346 or approval of department chair. Lab fees \$95.

CIS 4350. Management Information Systems. 3 Credit Hours.

Study management issues related to business information systems designed to meet the informational needs of the various business subsystems. Special emphasis on the concepts of systems development, security, privacy and ethics associated with information systems.

CIS 4351. IS Project Management. 3 Credit Hours.

This course studies the processes, methods, techniques and tools that organizations use to manage their information systems projects. The course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects. This course assumes that project management in the modern organization is a complex team based activity, where various types of technologies (including project management software as well as software to support group collaboration) are an inherent part of the project management process. This course also acknowledges that project management involves both the use of resources from within the firm, as well as contracted from outside the organization. Prerequisite: Senior standing or approval of department chair.

CIS 4352. Structured Query Language. 3 Credit Hours.

Study relational database schema, formulating queries and sub-queries of varying complexity, embedding query statements in a "host" language, and defining and querying data views. Prerequisite(s): CIS 4301 or permission of department chair.

CIS 4360. Strategic Information Systems. 3 Credit Hours.

(WI) This course will explore necessary management actions, which will ensure that information is available, correct, manipulatable, protected, and archived in proper forms to allow for a strategic use of information systems in the enterprise. Throughout this course we will review a set of conceptual frameworks of IT management, and by developing a critical view of two levels of IT management – strategic and tactical. We will address the value/importance of IT from strategic and tactical perspectives, and the IT management challenges of managing people, processes and technology. This course is to be taken concurrently with CIS 4090 for all undergraduate computer information systems and Information Technology majors. Prerequisite(s): Senior Standing or CIS 4350 or Permission of Department Chair. Corequisite: CIS 4090.

CIS 4375. Professional Senior Seminar. 3 Credit Hours.

Participate in professional organizations, current events, research and presentations, job market analysis, interviewing, and resume preparation, in order to prepare for the professional certification exam. Prerequisite(s): 24 hours of CIS courses.

CIS 4376. Network Administration. 3 Credit Hours.

Study communications architectures, protocols, and interfaces as related to network operating systems. Examine communications networking techniques, such as DHCP and DNS server configuration and internet working. Examine industry standards in networking. Special emphasis on installation, configuration, client handling, basic security, and troubleshooting of a network operating system. Use a modern network operating system in order to gain experience in configuration and administration of a network. Lab fee \$95. Prerequisite(s): CIS 3347 or permission of department chair.

CIS 4378. Comprehensive Networking. 3 Credit Hours.

A course requiring the student to learn details of various networking protocols and engage in analyzing and designing various computer network applications. Specifically, the course will focus on the OSI and TCP/IP networking protocols, including subnetting of IP address, local area networking (LAN), wide area networking (WAN) and network analysis. This course includes hands-on exercises on various networking layer messages on live web traffic and explore them to understand overall networking process. Lab fees: \$95. Prerequisite(s): CIS 3347 or permission of department chair.

CIS 4379. Software Engineering for E-Business. 3 Credit Hours.

(WI) This course examines the linkage of organizational strategy and electronic methods of delivering products, services and exchanges in inter-organizational, national, and global environments. Information technology strategy and technological solutions for enabling effective business processes within and between organizations in a global environment are considered. Students study a software life-cycle model, fundamental software engineering principles, and documentation standards in detail. An E-Business team project is required, which emphasizes the production of high quality software for medium and larger scale projects. This course is to be taken concurrently with COSC 4090 for all undergraduate computer information systems and Information Technology majors. Prerequisite(s): (CIS 3340 or CIS 3341 or CIS 3342 or CIS 3343) and senior standing. Corequisite: CIS 4090.

CIS 4380. Software Engineering. 3 Credit Hours.

Examine the production of high quality software for medium and larger scale projects. Explore theoretical software engineering research as the basis for a practical approach to developing quality software. Special emphasis on the software life-cycle model, fundamental software engineering principles, and documentation standards in detail. Prerequisite(s): CIS 3340 or CIS 3341 or CIS 3342 or CIS 3343 and senior standing.

CIS 4384. Internship in Computer Information Systems. 3 Credit Hours.

Gain practical work experience as a programmer/programmer analyst. Apply the principles, concepts, and skills learned during the first three years of collegiate training to the field of computer information systems. May be repeated for credit. Prerequisite(s): Permission of internship coordinator or department chair. Field experience fee \$75.

CIS 4388. Computer Information Systems Problems. 1-3 Credit Hours.

Explore selected topics in business on technical computer applications, practicum, field project, or other suitable computer studies. Prerequisite(s): Varies with topic or Permission of department chair.

CIS 5090. Computer Information Systems Comprehensive Examination. 0 Credit Hours.

Prepare for and take the CIS comprehensive exam. Students should take this exam in their last semester, their second to last semester, or when all the core classes have been taken. Students taking the thesis option do not need to take this exam.

CIS 5302. Object Oriented Programming. 3 Credit Hours.

This course covers the concepts of object-oriented approach to software design and development. It includes a detailed discussion of programming concepts starting with the fundamentals of data types, control structures, arrays, classes and proceeding to advanced topics such as inheritance and polymorphism, creating user interfaces, and exceptions. Upon completion of this course the students will be able to design and implement applications.

CIS 5304. Data Communications for Managers. 3 Credit Hours.

Examine the management and utilization of data communication technologies including technical components, configurations, applications, protocols, legal issues, software and management issues, Local Area Network (LAN) technologies, and security issues. Upon completion of this course, the students will be able to evaluate, select, and implement different data network options.

CIS 5307. Advanced Systems Analysis and Design. 3 Credit Hours.

Examine system analysis and design processes. Students will be introduced to comparative development methodologies and modeling tools including project management and cost-benefit analysis; information systems planning and project identification and selection; requirements collection and structuring; process modeling; conceptual and logical data modeling; database design and implementation; design of the human-computer interface ; system implementation; system maintenance and change management.

CIS 5311. Management Information Systems. 3 Credit Hours.

Study the management and use of information and technology as a resource to create competitive organizations, manage global operations, provide useful products and quality services. Examine intellectual property, privacy, organizational and societal impact, legal issues, ethics, security issues, decision making, strategic information systems, and organizational support systems.

CIS 5312. Technology Support Management Operations. 3 Credit Hours.

Study issues of organizing and staffing a technical support help desk. Explore the numerous management techniques and operational concepts that businesses and governmental organizations use to manage successful technical support activities. Survey the wide array of commercially available technical support software, and work with the public to deliver technical support in an operational environment.

CIS 5316. Advanced Database Management. 3 Credit Hours.

Examine the methodologies of database management including data models, database design, normalization, SQL/ PLSQL, NoSQL, performance and reliability, distributed database, data dictionaries, data integrity, security, and privacy.

CIS 5318. Quantitative Concepts. 3 Credit Hours.

Examine and apply measurement techniques to information technology related problems. Use a statistical program to analyze data, and perform analyses of programs and selected algorithms.

CIS 5319. Business Intelligence Systems. 3 Credit Hours.

Examine the fundamentals of Business Intelligence including concepts, techniques and applications. Special emphasis on Decision Support Systems and other collaborative systems, Data Management, Data Mining, Data Visualization, Expert Systems and Intelligent Systems.

CIS 5320. Information Systems Seminar. 3 Credit Hours.

Explore selected topics in information systems. Topics will vary. May be repeated once for credit as topics vary.

CIS 5325. Unified Modeling Language. 3 Credit Hours.

This course covers Systems Development Life Cycle using the Unified Modeling Language (UML) in an object-oriented software system environment. Topics include modeling the elements, structure, and behaviors of object-oriented software systems using UML. Upon completion of this course, students will be able to use UML to identify objects and classes, capture requirements and define use cases, to extend and enhance visual models, and model the details of object behavior with activity and state-chart diagrams.

CIS 5344. Scripting Languages for Web Design. 3 Credit Hours.

This course is a study of Web Scripting languages and will cover many aspects of creating dynamic Web Sites using server-side and client-side scripting. It will also delve into interactions between Web Sites and a database.

CIS 5345. Extensible Markup Language. 3 Credit Hours.

Study well-formed XML and validated XML documents and the language facilities for working with hierarchical data. Describe and transform XML data to an external presentation using real world problems.

CIS 5349. Topics in Programming. 3 Credit Hours.

Develop programming proficiency in a modern programming language. Undertake multiple programming assignments to achieve necessary knowledge and skills. May be repeated once for credit as topics vary. Prerequisite(s): Varies with Topic.

CIS 5351. Information Technology Project Management. 3 Credit Hours.

Study the concepts and practices of project management and its importance to improving the success of information technology projects. Utilize project management concepts and techniques within group projects, as a project manager or active team member. Topics include techniques for planning, organizing, scheduling, and controlling information systems projects.

CIS 5353. Data Analytics and Management. 3 Credit Hours.

Study fundamental concepts and principles of data analytics and its role in supporting/enhancing organizational decision making and predictions. Special emphasis on trends, challenges and applications, analytic methods, tools, technologies, infrastructure and strategies for data analytics and data management including data privacy and ethics. The course also focusses on how data analytics techniques can be applied to solve marketing and management problems. Prerequisite: CIS 5311 or permission of department chair.

CIS 5354. Advanced Methods in Big Data Analytics. 3 Credit Hours.

Study advanced concepts and principles of Big Data Analytics and its role in supporting/enhancing organizational decision making and predictions. Special emphasis on NoSQL Databases, Hadoop Ecosystem, MapReduce, Pig, Hive, Natural Language Processing, Social Network Analysis, and Data Visualization. Prerequisite(s): CIS 5353, Java Programming or permission of department chair.

CIS 5355. Visual Analytics. 3 Credit Hours.

This course helps students in creating and evaluating visualizations to be employed for various purposes and help decision-makers. Students will explore datasets and use them to build visualizations using existing software packages such as Tableau, Power BI, Google Data Studio available in the market. Additionally, students will evaluate the best practices of data visualization and adapt them to their work.

CIS 5356. Web & Social Analytics. 3 Credit Hours.

The course focuses on retrieving and analyzing social media data from the web. The course also provides understanding and practical applications of social networks. Topics covered includes social media data acquisition & analysis, social network representation & visualization, network cohesion, homophily, affiliation network, clustering, social influencer identification, etc. The course also investigates managerial understanding of web analytics measures using open-source tools.

CIS 5357. Applied Machine Learning. 3 Credit Hours.

The course covers fundamental concepts and principles of machine learning and its role in supporting/enhancing organizational decision making and predictions. The course introduces machine learning topics such as neural networks, decision trees, boosting, reinforcement learning, ensemble techniques, support vector machines, etc. The course also discusses application of machine learning to different domains. The course requires coding in R and/or Python.

CIS 5365. Web Development. 3 Credit Hours.

Examine theory and application of the multimedia application development process. Develop the web-based authoring and scripting tools, to use in the creation of various types of web-based projects. Special emphasis on the planning, design, projection, and evaluation of interactive web-based projects for delivery through a variety of media.

CIS 5370. Foundations of Information Security. 3 Credit Hours.

This course explores technical and managerial aspects of information security and assurance. Topics include Security and Risk Management, Business Assets Security, Communication and Network Security, Database Security, Operating systems security, Identity and Access Control Management, Physical, technical and operational security measures, Security policy and management.

CIS 5371. Enterprise Cybersecurity Management. 3 Credit Hours.

This course provides students with insight into the cybersecurity issues surrounding an enterprise including securing organizational data, responding to cyber based security breaches, emerging technologies, and ensuring a secured computing environment for safeguarding company information. Introduction to cybersecurity & privacy policy frameworks, governance, standards, and strategy. Risk management fundamentals and assessment processes are reviewed, and the methodology for identifying, quantifying, mitigating and controlling risks.

CIS 5372. Network and Systems Security. 3 Credit Hours.

The course provides students with the framework and procedures for securing computer systems and data networks. Topics may include the methodologies for the design of security systems, establishing security protocols, and the identification of best practices in administration, testing, and response protocols for secure communications systems. Prerequisite(s): CIS 5370 or approval of Department Chair.

CIS 5373. Digital Forensics. 3 Credit Hours.

This course is designed as an overview of the investigative methods and tools associated with computer forensics. Topics include: processing crime and incident scenes, digital evidence controls, recovery of information, network forensics, data acquisition, and legal and ethical issues associated with investigations.

CIS 5376. Network Administration and Design. 3 Credit Hours.

This course explores network design, installation planning, and preparation. Topics include installing network operating system; establishing network security and services; exploring network administration, network utilities, maintenance techniques; monitoring performance; troubleshooting and configuring the network.

CIS 5380. E-Business Application Development. 3 Credit Hours.

This course provides an in-depth knowledge of systematic approach to analyze digital markets. Upon completion of this course, students will be able to design and implement an e-business project integrating database, and scripting languages. Prerequisite: CIS 5316 or perm of Chair.

CIS 5381. Research Project with Laboratory. 3 Credit Hours.

Engage in independent study in selected topics in Information Systems. May be repeated for credit once when topics change. Prerequisite(s): Varies with topic.

CIS 5382. Research Methods in Computer Information Systems. 3 Credit Hours.

This course provides an overview of research problems and techniques in information systems. Upon completion of this course, students will be able to formulate a research question; conduct a literature survey; select appropriate research methods to answer their research questions; collect and analyze data.

CIS 5384. Computer Information Systems Internship. 3 Credit Hours.

Engage in a supervised professional experience in an information technology-related position with a public or private organization. May be repeated for a total of 6 hours credit. Prerequisite(s): 6 semester hours of CIS courses or equivalent and permission of internship coordinator or department chair. Field experience fee \$75.

CIS 5388. Computer Information Systems Problems. 1-3 Credit Hours.

Study selected topics in CIS and perform research within the student's area of interest as directed by the responsible professor. May be repeated as topics vary for a maximum of 6 semester hours. Prerequisite(s): Varies with topic.

CIS 5389. Special Topics in Computer Information Systems. 3 Credit Hours.

Study selected current topics in computer information systems. May be repeated once for credit as topics vary. Prerequisite(s): Varies with topic.

CIS 5398. Computer Information Systems Thesis. 1-6 Credit Hours.

Prepare and write the information systems thesis. Scheduled when the student is ready to begin the thesis. No credit until the thesis is accepted. Prerequisite(s): CIS 5382, 18-hours.

Computer Science (COSC)

COSC 3304. Topics in Computer Science. 3 Credit Hours.

Explore selected topics in computer systems including programming languages, programming techniques, or other specialized topics. May be repeated once for credit as topics vary. Prerequisite(s): Varies with topic or permission of department chair.

COSC 3320. Introduction to Software Engineering. 3 Credit Hours.

Study object-oriented software development process, requirements analysis, software design concepts and methodologies, object-oriented programming, and debugging. Prerequisite(s): COSC 2436 or permission of department chair.

COSC 3343. Computer Architecture. 3 Credit Hours.

Hardware and software structures found in modern digital computers. Instruction set architecture, hardwired design of the processor, assembly language programming, microprogramming, I/O and memory units, analysis of instruction usage, and hardware complexity. Prerequisite(s): (PHYS 2425 and PHYS 2426) and (COSC 2436 or CIS 3332 or permission of department chair).

COSC 3351. Data Structures. 3 Credit Hours.

Examine theory and application of commonly used computer data structures, files, file organization and access methods, databases, and other storage and retrieval methods. Prerequisite(s): A programming course in C/C++, Visual Basic, Java, or permission of department chair.

COSC 3360. Ethics in Computing. 3 Credit Hours.

(WI) Examine personal and contemporary organizational ethical issues and challenges in the design, development and use of computing technologies in a global environment. Special emphasis on philosophical basis for computer ethics, reliability and safety of computer systems, protecting software and other intellectual property, computer crime and legal issues, and professional codes of ethics such as AIS, ACM, IEEE.

COSC 3380. Operating Systems. 3 Credit Hours.

Examine the design and development of operating systems. Analyze current system software technology, including process management, memory organization, security, and file systems. Prerequisite(s): COSC 2436 or CIS 3330 or CIS 3331 or CIS 3332 or permission of department chair.

COSC 4090. Computer Science Capstone Assessment. 0 Credit Hours.

This course is to be taken concurrently with COSC 4379 for all undergraduate computer information systems and Information Technology majors. The capstone assessment is administered by the College of Business Administration to ensure the quality and continuous improvement of its undergraduate business programs.

COSC 4301. Database Theory and Practices. 3 Credit Hours.

Examine database concepts and structures. Learn the file and data management principles underlying database construction. Explore fundamental types of database models, with emphasis on relational databases as well as on major non-relational forms. Gain experience in analysis, design, development, and optimization of working database applications on a variety of problems. Special emphasis on small and large system databases. Credit for both CIS 4301 and COSC 4301 will not be awarded. Prerequisite(s): 6 hours of computer science courses or permission of department chair.

COSC 4310. Artificial Intelligence. 3 Credit Hours.

A study of AI programming techniques and tools. Topics include Expert Systems, Neural Networks, Genetic Algorithms, Automatic Programming, heuristic search, and others. Prerequisite(s): CIS 3331 or CIS 3332 or CIS 3333 or permission of department chair.

COSC 4311. Android Application Development. 3 Credit Hours.

This course explores the design and development of mobile applications such as Android, including resources, user interfaces, services, alarms, maps and location based services. Prerequisite(s): CIS 3332 or permission of department chair.

COSC 4340. Analysis of Algorithms. 3 Credit Hours.

Study modern computer algorithms with emphasis on how to select the best algorithm for a task considering the specific computing environment. Examine searching and sorting algorithms for their importance in computing. Special emphasis on efficiency, readability, maintainability, advanced design and analysis techniques, advanced data structures, and graph algorithms. Prerequisite(s): COSC 3351 or concurrent enrollment or permission of department chair.

COSC 4341. Information Technology Security and Risk Management. 3 Credit Hours.

Examine the realm of information assurance and security. Study the fundamental principles, concepts, and common body knowledge of information security. Explore telecommunication and network security, software development and physical security, cryptography, security architecture, operations security, business continuity and disaster recovery planning. Understand the legal and ethical issues in technology security, and risk management.

COSC 4378. Computer Networks. 3 Credit Hours.

A course requiring the student to learn the details of various networking protocols and engage in analyzing and designing various computer network applications. Specifically, the course will focus on the OSI and TCP/IP networking protocols, including subnetting of IP address, local area networking (LAN), wide area networking (WAN) and network analysis. This course includes hands-on exercises on various networking layer messages on live web traffic and explores them to understand overall networking process. Lab fees: \$95. Prerequisite(s): CIS 3347 or (COSC 2436 and MATH 2414) or permission of department chair.

COSC 4379. Software Engineering for E-Business. 3 Credit Hours.

(WI) This course examines the linkage of organizational strategy and electronic methods of delivering products, services and exchanges in inter-organizational, national, and global environments. Information technology strategy and technological solutions for enabling effective business processes within and between organizations in a global environment are considered. Students study a software life-cycle model, fundamental software engineering principles, and documentation standards in detail. An E-Business team project is required, which emphasizes the production of high quality software for medium and larger scale projects. This course is to be taken concurrently with COSC 4090 for all undergraduate computer information systems and Information Technology majors. Prerequisite(s): (CIS 3340 or CIS 3341 or CIS 3342 or CIS 3343) and senior standing. Corequisite: CIS 4090.

COSC 4388. Computer Science Problems. 1-4 Credit Hours.

Explore selected topics in computer science. May be repeated with the permission of the department chair for additional credit when fewer than four credits have been earned. Prerequisite(s): 9 hours of COSC.

COSC 4389. Special Topics in Computer Science. 3 Credit Hours.

(WI) Explore selected topics in computer science, such as artificial intelligence, security, robotics, and human-computer interaction. May be repeated for additional credit with permission of the department chair. Prerequisite(s): 9 hours of COSC.

Counseling (COUN)

COUN 5090. Comprehensive Examination. 0 Credit Hours.

Study for and take the behavioral examination for Non-thesis students. Register for the comprehensive examination during final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis students do not take this examination.

COUN 5302. Intro to Research. 3 Credit Hours.

This is an introductory graduate-level course in research design and methods and program evaluation. It is designed to introduce the student to the fundamentals of research in education and applied behavioral sciences. That is, students will explore what research involves, the various types of research, the techniques for conducting research studies, ethical behavior in the conduct of research, and research in educational settings. Descriptive and inferential statistics will be presented in the context of the research study. Social issues related to educational research will also be presented and discussed. Prerequisite(s): None.

COUN 5304. Human Development. 3 Credit Hours.

Study the development of human beings from conception to death. Learn research and theory of physical, cognitive, social and personality development in each of the different age groups, prenatal, infancy, childhood, adolescence, and adulthood also covers related ethical concerns.

COUN 5307. Abnormal Behavior. 3 Credit Hours.

Counselors need to understand the construct of abnormal behavior is a social construction and thus may be defined differently by cultures, families and society. We will examine the theories of abnormal psychology, current research through the lens of a socio-cultural model. We will also examine social and group dynamics that can elicit abnormal behavior from "normal" people. Prerequisite(s): COUN 5350 or permission of department chair.

COUN 5309. Assessment and Treatment of Marital and Family Systems. 3 Credit Hours.

Study evaluative methods and assessment techniques as well as treatment plans and strategies for examining and treating problematic and dysfunctional marital and family systems. Emphasis is placed on case analysis, management and treatment. Prerequisite(s): COUN 5350 and COUN 5356 or permission of department chair.

COUN 5311. Multicultural Counseling. 3 Credit Hours.

Study the interaction of social/cultural groups in America, problems of minorities and ethnic groups, problems related to gender and age, problems within family systems and contemporary sources of positive change also covers related ethical concerns. Development of counseling skills and strategies based upon the special needs and characteristics of culturally and ethnically diverse clients. Prerequisite(s): None.

COUN 5313. Crisis Intervention and Management. 3 Credit Hours.

Examine the dynamics and treatment of situation crises in various settings. Study theories and approaches to crisis intervention and management. Prerequisite(s): COUN 5350 or permission of department chair.

COUN 5320. Advanced Family Systems Theory. 3 Credit Hours.

Examine theories of family systems in relation to internal functioning and the external environment, including concepts of multi-generational transmission, fusion, emotional cutoff, differentiation, family projection and triangulation among others.

COUN 5350. Foundations of Counseling. 3 Credit Hours.

Study individual and group counseling, testing career planning and placement, referral, and consultation. Examine related theories and concepts with emphasis on counseling skills, as well as history and ethical and professional issues.

COUN 5351. Career Counseling and Guidance. 3 Credit Hours.

Study career counseling and guidance services that focus on occupational, educational, and personal/social issues for general and special populations. Examine theoretical bases for career counseling and guidance, study of organization and delivery of information through individual and group activities, and related ethical concerns. Additional purchase of occupational and education information materials may be required.

COUN 5352. Foundations of Professional School Counseling. 3 Credit Hours.

The course is an introduction into the field of professional school counseling and includes a study of the history and emergence of school counseling and guidance and the transformed role of the school counselor. Students will become familiar with the Texas Model for Comprehensive School Counseling Programs and the American School Counselor Association's National Model. Standards for School Counseling Programs and how these standards impact the school counseling profession is addressed. School counselor collaboration and consultation is explored. Students are introduced to legal and ethical concerns in school counseling and school crisis management. Prerequisite(s): Admission to School Counselor program.

COUN 5353. Theories of Counseling. 3 Credit Hours.

Investigate personality and counseling theories with an emphasis on how theories influence practice. Special emphasis on applications to various populations, role play, other experiential methods, and related ethical concerns. Prerequisite(s): COUN 5350 or PSYC 5360 or approval of the Department Chair.

COUN 5354. Group Procedure for Counselors. 3 Credit Hours.

Explore group therapy and group procedures with special emphasis on the development of group counseling skills with children, adolescents, adults, special populations, and related ethical concerns while supervised. Prerequisite(s): COUN 5350 and COUN 5357 or permission of department chair.

COUN 5355. Advanced School Counseling: School Counseling Models. 3 Credit Hours.

This course provides students an in-depth study of professional school counselor roles and responsibilities within comprehensive school counseling programs. Students are provided with a practical application of comprehensive school counseling needs assessment, and program development, implementation, and evaluation. Students will collaborate with school stakeholders and discuss the school counselor as an educational leader and student advocate in the school setting. Prerequisite(s): COUN 5352 Foundations of School Counseling or Permission from Program Coordinator and Admission to EPP.

COUN 5356. Introduction to Family Counseling. 3 Credit Hours.

Learn family systems theory as applied to the study of family dynamics, family development, and the resolution of both family and ethical concerns.

COUN 5357. Methods and Practices in Counseling. 3 Credit Hours.

Study counseling pre-interns to methodology that goes beyond building basic counseling skills and techniques. Learn the basics of professional documentation, treatment planning, legal issues related to counseling, psychological services, and basic business practices. Prerequisite(s): COUN 5350 or PSYC 5360 or approval of the Department Chair.

COUN 5358. Counseling Perspective on Psychopathology. 3 Credit Hours.

Explore psychopathology that includes the history of abnormal behavior and an in-depth study of the specific diagnostic psychological disorders. Emphasis will be on classification systems currently used in clinical settings, treatment alternatives from a counseling perspective, and related ethical concerns. Prerequisite(s): COUN 5350 or PSYC 5360 or approval of the Department Chair.

COUN 5363. Addictions Counseling. 3 Credit Hours.

Study addiction counseling. Special emphasis is given to models of addiction, chemical dependence, process addictions, co-dependence and related ethical concerns. Materials fee \$25.00.

COUN 5365. Ethical Foundation of Counseling. 3 Credit Hours.

Explore ethical principles of counselors, related codes of ethics, models for ethical decision making, and how to apply them to counseling practice.

COUN 5366. Sandtray Therapy. 3 Credit Hours.

This course is designed to provide students with extensive practical experience related to Sandtray as a therapeutic intervention for children, adolescents, adults, and families. This course uses both didactic and experiential methods to enhance student's knowledge, skills and competence in using sandtray as a play therapy modality with clients. The curricula for this course include (1) knowledge of the literature of the discipline of sandtray in play therapy and (2) ongoing student engagement in professional play therapy practice. Prerequisite(s): COUN 5357.

COUN 5367. Play Therapy. 3 Credit Hours.

Students will explore the therapeutic powers of play within a counseling relationship. Enhance basic counseling skills and techniques using play as the medium of communication. Analyze the background, history, ethical concerns, and professional credentialing requirements of play therapists. Demonstrate play therapy skills and techniques with a child and participate in observation of and supervision in play therapy. Prerequisite(s): COUN 5350 Foundations of Counseling, COUN 5357 Methods and Practices of Counseling, Co-requisite COUN 5393 Practicum I: Field Experience or permission of department chair.

COUN 5381. Assessment and Evaluation Fundamentals. 3 Credit Hours.

Examine nature and development of standardized tests, with emphasis on ethical standards, psychometric theory, test standards, and test construction. Selection criteria and utilization of standardized or other instruments in various environments are considered. Analyze evaluations and critiques of published tests and experiential exposure to different types of psychological tests.

COUN 5386. Clinical Mental Health Internship. 3 Credit Hours.

Explore professional activities in counseling and become familiar with a variety of professional activities and resources. Must complete 600 clock hours, of which at least 240 are direct client contact, in no less than two semesters and no more than three semesters. Interns will receive a minimum of 1.5 hours per week of group supervision and 1 hour per week of individual/triadic supervision. Prerequisite(s): COUN 5393 and permission of Practicum/Internship Director. CMHC Field experience fee - \$75. School Counseling Field experience fee \$225.

COUN 5388. Counseling Problems. 1-3 Credit Hours.

Study of selected problems in counseling. Open to graduate students in counseling who are independently capable of developing a problem in the area of counseling and guidance. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need.

COUN 5389. Special Topics in Counseling. 3 Credit Hours.

Examine current advanced study material on a specialized topic of interest to counseling and psychology. Explore required readings from current counseling and psychology publications and other related periodicals. Course may be repeated for credit as topics vary.

COUN 5391. School-Counseling Practicum I. 3 Credit Hours.

Explore professional activities in guidance and counseling. Major emphasis is placed on the involvement in successful practices at the educational level of interest. Students must have met all academic and professional standards of practice before placement and lab experiences are included. Prerequisite(s): COUN 5350, COUN 5351, COUN 5353, COUN 5354, COUN 5357, COUN 5352. Field experience fee - \$75.

COUN 5392. School-Counseling Practicum II. 3 Credit Hours.

Experience professional activities in counseling and guidance in area of interest. Major emphasis is placed on the integration of theoretical and conceptual principles, as well as professional and personal skill development, and related ethical concerns. Prerequisite(s): COUN 5391 and the application for internship. Field experience fee - \$75.

COUN 5393. Clinical Mental Health Practicum. 3 Credit Hours.

Gain professional experience in marriage and family, mental health, and/or counseling and guidance placements in the Community Counseling and Family Therapy Center, or in placements outside the university. The field experience will consist of 100 clock hours with 40 client contact hours. Weekly individual and group supervision is included. Prerequisite(s): COUN 5350, COUN 5353, COUN 5354, COUN 5357, COUN 5358 and COUN 5365 with a B or better in each course; and consent of the practicum/internship director. Field Experience fee - \$75.

Criminal Justice (CRIJ)

CRIJ 3300. Juvenile Delinquency. 3 Credit Hours.

This course examines the nature and extent of juvenile offending. Theories of delinquency and treatment and prevention strategies will be explored. The procedures and operations of the juvenile justice system will also be emphasized.

CRIJ 3301. Gender and Crime. 3 Credit Hours.

This course examines the relationship between gender and crime. Students will examine the effects gender has on offending, victimization, and treatment in the criminal justice system. Emphasis will be placed on the intersectionality of gender, race, sexuality, and inequality.

CRIJ 3303. Criminal Justice System. 3 Credit Hours.

Criminal Justice System discusses the history and philosophy of criminal justice, and provides students a comprehensive overview of policing, courts, corrections, and the juvenile justice system. Additionally, the course addresses contemporary issues and ethical issues facing society and the criminal justice system.

CRIJ 3305. Criminology. 3 Credit Hours.

Study and critique various theories of crime causation, including an examination of classical, biological, psychological, and sociological perspectives on the etiology of crime. Maybe crosslisted with SOCI 3305. Only one may be taken for credit.

CRIJ 3310. Criminal Justice Supervision and Management. 3 Credit Hours.

Study theories and principles of supervision as applied to criminal justice agencies including organization, leadership, motivation, human resources flow, and managerial ethics. Prerequisite(s): Junior classification or permission of instructor.

CRIJ 3311. Techniques of Interviewing. 3 Credit Hours.

Study interview and interrogation techniques, including preparation, environmental and psychological factors, legal issues, and ethics.

CRIJ 3314. Legal Aspects. 3 Credit Hours.

This course examines legal aspects of the criminal justice system. Criminal law and citizen rights will be examined at both the federal and state levels. Topics include applicable amendments, common law and statutory crimes, principles of criminal responsibility, the evolution of U.S. Criminal Law and the functions and development of criminal law.

CRIJ 3315. Criminal Evidence. 3 Credit Hours.

Analyze the procedures and rules of evidence applied to the acquisition, offering, admissibility, and presentation of evidence from the crime scene, courtroom, and appellate court perspectives.

CRIJ 3320. Policing. 3 Credit Hours.

Examine law enforcement, and the role of police in communities and society. Learn to critically evaluate policing as a profession. Special emphasis on dispelling myths and providing tools needed to reach conclusions based upon the available research in the field of police work.

CRIJ 3325. Institutional Corrections. 3 Credit Hours.

This course focuses on the structure and function of correctional systems and how various correctional philosophies affect the operation of confinement institutions, including jails and prisons. Students will learn about contemporary issues in corrections, including capital punishment, treatment, prisoner's rights, and special prison populations.

CRIJ 3330. Community Corrections. 3 Credit Hours.

This course focuses on the philosophy, administration, and operation of community-based treatment and supervision of offenders. Specific focus will be placed on probation and parole, intermediate sanctions, diversion programs, and pre-trial release.

CRIJ 3340. Homeland Security. 3 Credit Hours.

This course covers issues associated with U.S. homeland security. Students will examine theories and the practice of homeland security including legal aspects, foreign and domestic threats, counter measures, and the interfacing of security agencies.

CRIJ 3345. Criminal Justice and Moving Images. 3 Credit Hours.

This course explores the role of film, television, social media, news media, and other moving images in developing perceptions and stereotypes of specific aspects of the criminal justice system. Class discussions will focus on crime rates, criminals, victims, criminal justice professionals, and institutions.

CRIJ 3350. Forensic Science Seminar. 3 Credit Hours.

This course offers a foundational understanding of forensic science and evidence management, focusing on evidence packaging, chain of custody, and forensic science's role in the criminal justice system. Students will learn the history, best practices in evidence handling, and common errors in forensic investigations.

CRIJ 3352. Physical Aspects of Forensic Science. 3 Credit Hours.

Examines various forensic physical sciences and their relation to crime scene investigation and the collection, preservation and identification of evidence. Introduces methods of laboratory analysis of fingerprints, firearms, tool marks, and documents, and evaluates trace evidence, such as glass, soil, paint, hairs, and fibers. Materials fee \$15.

CRIJ 3353. Biological Aspects of Forensic Science. 3 Credit Hours.

Examines various forensic biological sciences and their relation to crime scene investigation and the collection, preservation and identification of evidence. Introduces methods of laboratory analysis including forensic disciplines of pathology, anthropology, odontology, entomology, toxicology, serology, DNA, and blood pattern analysis. Materials fee \$15.

CRIJ 3384. Criminal Justice Internship. 3 Credit Hours.

This course will allow students to integrate and apply their academic knowledge in criminal justice settings. Students will be able to develop skills necessary for criminal justice occupations. Entry into this course will be arranged with the internship coordinator. This course may be taken twice for credit. Internship fee \$75.

CRIJ 4300. Treatment in Criminal Justice. 3 Credit Hours.

Examines the various types of treatment provided in criminal justice. Students learn about treatment practices and programs used in criminal justice, with an emphasis on evidence-based practices. Examines research on the effectiveness of treatment programs.

CRIJ 4301. Society and Law. 3 Credit Hours.

This course explores key concepts and issues within the field of criminal justice. Through a combination of readings, lectures, and assignments, students will develop a comprehensive understanding of the criminal justice system and its impact on society.

CRIJ 4302. Mental Health in Criminal Justice. 3 Credit Hours.

Students will explore the prevalence of mental health disorders in criminal justice populations, their impact on criminal behavior, and how the system manages these issues. The course also covers mental health courts, diversion programs, and alternative strategies to improve outcomes for individuals with mental health challenges in the justice system.

CRIJ 4303. Race, Crime, and Justice. 3 Credit Hours.

Examines racial profiling, immigration, and the death penalty in the context of criminal justice practice. Provides current issues regarding the relationship between race and ethnicity and all components of the criminal justice system in the US.

CRIJ 4305. Environmental Crime and Justice. 3 Credit Hours.

This course focuses on environmental harms and crimes from a socio-legal perspective. Students will be introduced to the scope and prevalence of environmental harms and crimes from an international perspective, environmental law and regulation, and issues in environmental justice. Specific topics of discussion will include green criminology, transnational environmental concerns, and how societies' cultures, economies, and unequal distributions of resources are related to environmental crimes.

CRIJ 4308. Theories of Victimization. 3 Credit Hours.

This course examines theories of victimization. Students will learn what data and research suggest about who is victimized, why some people are victimized more than others, and the overlap between victimization and offending. Students will be challenged to explore how to use this understanding of victimization to improve support for victims and prevent deviance and crime.

CRIJ 4312. Criminal Justice Ethics. 3 Credit Hours.

This course focuses on what is right, what is wrong, and what is just. Students will be challenged to think about how morality shapes theories of crime, social rules, and what laws are supported. Students will be introduced to the main branches of moral philosophy, emphasizing the philosophies that form the system of justice in the United States.

CRIJ 4315. Social Science Statistics. 3 Credit Hours.

Students will learn statistical concepts and techniques that can assist in evaluating and conducting research. Techniques include measures of central tendency, dispersion, and significance. Students will examine hypothesis testing using t-tests, ANOVA, and Chi square, and learn to analyze and interpret data using statistical software.

CRIJ 4316. Methods of Criminal Justice Research. 3 Credit Hours.

(WI) Learn the methods of criminological and criminal justice research, with emphasis on research ethics, research design, and methods of data collection and analysis.

CRIJ 4320. Criminal Justice Statistics II. 3 Credit Hours.

Learn intermediate-level statistics used in Criminal Justice research, with focus on statistical analyses commonly used in hypothesis testing with an introduction to measures of association and multivariate analyses. Prerequisite(s): CRIJ 4315 or permission of instructor.

CRIJ 4350. Specialized Investigations: Techniques and Analysis. 3 Credit Hours.

This course explores advanced investigative techniques for various crimes that require specialized knowledge. Emphasis is placed on best practices in all aspects of investigation from analysis to courtroom testimony. The course prepares students to tackle diverse investigative challenges using evidence-based approaches and industry standards.

CRIJ 4351. Forensic Anthropology. 3 Credit Hours.

Applies the science of physical anthropology to the legal investigative process. Identifies human remains, as well as age, sex, ancestry, and stature of those remains and how these are used to help establish positive identification. Special emphasis placed on skeletal trauma and pathology to determine cause and manner of death. Cross-listed with ANTH 4351; only one may be taken for credit. Material fee \$15.

CRIJ 4360. Forensic Psychology in Corrections. 3 Credit Hours.

This course covers the various activities and roles forensic psychologists and other mental health professionals play in psychology and the legal system. It will provide you with an introductory knowledge of forensic topics, including serial killers, sex offenders, terrorism, insanity defenses, and the etiology of aggression. Students will gain knowledge of the use of psychology in the legal system and how mental health professionals aid in the treatment of offenders reintegrating into society post-offense.

CRIJ 4361. Exploring the Criminal Mind. 3 Credit Hours.

This course explores the theoretical underpinnings that attempt to explain and predict criminal behavior and human aggression, including investigation of biological, cognitive, social, and other explanations. Additionally, the course investigates juvenile delinquency, psychopathy, mental illness, mass murder, sexual offending, terrorism, white collar crime, and the unique features and profiles of each of these domains.

CRIJ 4388. Criminal Justice Problems. 3 Credit Hours.

Engage in independent reading, research, and discussion on selected criminal justice topics. Entry into this course will be arranged by the instructor.

CRIJ 4389. Special Topics in Criminal Justice. 3 Credit Hours.

Explore selected criminal justice topics. Topics will vary according to timeliness and special needs. May be taken more than once for credit.

CRIJ 4395. Criminal Justice Capstone. 3 Credit Hours.

(WI) Utilize knowledge of the criminal justice system in the capstone of the criminal justice curriculum. Examine current practices related to operations, recruitment, testing, training, and law, to prepare for entry to the criminal justice profession. Prerequisite(s): Senior standing.

CRIJ 5090. Criminal Justice Comprehensive Examination. 0 Credit Hours.

Study and integrate criminal justice knowledge in order to take the criminal justice comprehensive exam for non-thesis students. Non-thesis students should register for the comprehensive examination during their final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis students do not take this examination.

CRIJ 5198. Criminal Justice Thesis. 1-3 Credit Hours.

Prepare and write a graduate thesis in the field of criminal justice. This course represents a student's initial and continuing thesis enrollment. At least six total hours is required to complete the thesis requirement. The student continues to enroll in this course until the thesis is submitted and the thesis is successfully defended.

CRIJ 5300. Quantitative Data Analysis I. 3 Credit Hours.

This course introduces students to statistical concepts and techniques that can assist them in evaluating research and in engaging in research on the graduate level. The course will include both bivariate and multiple regression techniques.

CRIJ 5301. Advanced Criminology. 3 Credit Hours.

This course examines the major theoretical perspectives of crime and deviance. Students will analyze theories for their logical and empirical adequacy in light of what is known about the distribution of crime and deviant behavior.

CRIJ 5303. Race and Ethnicity. 3 Credit Hours.

Examine issues related to racial and ethnic minorities and crime in America, including perceptions of race, class, offending, and victimization. Emphasis on disparities in offending, victimization, law enforcement practices, trial process, and sentencing.

CRIJ 5304. Advanced Research Methods. 3 Credit Hours.

This course covers research methods applied to criminal justice issues, and critically examines research designs and published findings. Students will review procedures and techniques for research in criminology, law enforcement, courts, and corrections.

CRIJ 5306. Program Evaluation. 3 Credit Hours.

In this course students will learn how research methods are applied to evaluating programs, the need for program evaluations, and how to design an evaluation and write an evaluation proposal.

CRIJ 5307. Homeland Security. 3 Credit Hours.

Study strategic, legal, policy, operational, and organizational issues associated with the defense of the U.S. homeland from foreign and domestic terrorist threats. Topics include legal issues in Homeland Security, effective interfacing between local, state, and federal agencies, emergency management operations, and planned response strategies. Maybe crosslisted with HLS 5307. Only one may be taken for credit.

CRIJ 5308. Victimology. 3 Credit Hours.

This course examines theories of victimization and victim-centered programs. Students will critically examine the victim/offender overlap and explore how supporting victims can help prevent further victimization, deviance, and offending.

CRIJ 5309. Terrorism. 3 Credit Hours.

Examine the definitions, history, beliefs, practices, organizational structure, and conflicts involved in terrorist activities. Address funding and criminal connections with terrorist organizations, efforts at counterterrorism as well as the psychological aspects of suicide terrorism.

CRIJ 5311. Quantitative Data Analysis II. 3 Credit Hours.

This course introduces students to logistic regression models for estimating discrete or categorical variables. Students will learn how to discern when logistic regression is the appropriate statistical analysis as well as how to apply these analyses to quantitative research. The evaluation of models and interpretation of outputs are covered. Prerequisite(s): 3 hours in CRIJ 5300, or approval of instructor.

CRIJ 5313. Treatment in Corrections. 3 Credit Hours.

This course will cover the various types of treatment provided in corrections. Students will learn about treatment practices and programs used in correctional institutions and community corrections, emphasizing evidence-based treatment. Students will also learn how to write informed opinions on these topics and review empirical support for treatment.

CRIJ 5314. Juvenile Justice Administration. 3 Credit Hours.

This course provides an in-depth analysis of the juvenile justice system, focusing on the administration of juvenile justice programs, policies, and treatment practices. It emphasizes evidence-based practices and policy analysis, preparing students to engage in advanced discussions on juvenile justice reform and contribute to the development of more effective juvenile justice policies.

CRIJ 5315. Graduate Proseminar. 3 Credit Hours.

Introduces students to the department and faculty. Emphasis placed on effective study habits and writing skills associated with research, as well as other activities/parameters that will assist the student in being successful in the program. This course is cross-listed with HLS 5315; only one may be taken for credit.

CRIJ 5320. Criminal Justice Administration. 3 Credit Hours.

This course offers graduate students a comprehensive understanding of criminal justice administration, focusing on the interplay between theory, research, and practical applications. Students will explore key areas such as leadership, ethics, public policy, and the impact of legal and social change on justice systems.

CRIJ 5321. Leadership and Supervision. 3 Credit Hours.

Examine leadership and organizational theories focused on identifying problems and solutions in criminal justice management. The case study method and current literature provide experiences on how leadership styles, human resources, and the organizational environment impact management decisions. Maybe crosslisted with HLS 5321. Only one may be taken for credit.

CRIJ 5322. Advanced Criminal Justice Ethics. 3 Credit Hours.

This course focuses on moral reasoning and criminal behavior. The course builds on a student's understanding of moral principles to examine deviant and criminal behavior. Students will be introduced to research that explores the moral decision making of offenders and will be challenged to think about the goals of criminal justice programs and policies.

CRIJ 5330. Criminal Justice and Mental Health Systems. 3 Credit Hours.

This course explores the complex relationship between mental health and the criminal justice system, examining how these intersecting systems impact individuals, communities, and policy. Students will critically analyze the challenges faced by individuals with mental health conditions within the criminal justice system, including issues of access to care, the criminalization of mental illness, and systemic barriers to treatment.

CRIJ 5380. Current Issues in Criminal Justice. 3 Credit Hours.

This graduate course critically examines contemporary issues in the criminal justice system, focusing on challenges in law enforcement, the judiciary, corrections, and public policy. Students will analyze current trends, debate controversial topics, and propose solutions to emerging problems.

CRIJ 5388. Criminal Justice Problems. 1-3 Credit Hours.

Students will engage in independent reading, research, and discussion on selected criminal justice topics. Entry into this course will be arranged with the program coordinator. The course may be repeated for a total of six (6) hours when topics vary.

CRIJ 5389. Special Topics in Criminal Justice. 3 Credit Hours.

Examine selected topics related to criminal justice. This course may be repeated when topics vary, for additional course credit.

CRIJ 5390. Capstone. 3 Credit Hours.

Conducted as independent directed studies, students will develop and execute a research project, integrating concepts from previous courses. The research project will relate to students' specific areas of specialty and interest. The course must be passed with a minimum of a B to complete the degree plan. The course may be repeated once. Dismissal from the program will occur if not successfully completed after two attempts. Prerequisite(s): At least 24 hours must be completed before registering for this course.

DANCE (DANC)

DANC 3365. Ballet. 3 Credit Hours.

Instruction in the fundamental techniques and concepts associated with Ballet. May be repeated for credit once.

DANC 3366. Tap Dance. 3 Credit Hours.

Instruction in the fundamental techniques and concepts associated with Tap dance. May be repeated for credit once. Prerequisite(s): None.

DANC 4367. World Dance. 3 Credit Hours.

Instruction in the fundamental techniques and concepts associated with the concert form of modern dance. Prerequisite(s): None.

Drama (DRAM)

DRAM 3321. Intermediate Acting: Playing Actions. 3 Credit Hours.

Advanced exploration and further training within the basic principles and tools of acting, focusing on breaking down scripts into playable actions and objectives. Students will learn common approaches to acting to prepare them for working with various directors throughout their career. Students will perform various scenes and receive coaching for deepening their acting practice. Prerequisite(s): None.

DRAM 3311. Intermediate Theatre Practicum. 3 Credit Hours.

Practicum in theater open to all students with emphasis on technique and procedures with experience gained in play productions.

DRAM 3323. Acting III: Advanced Acting. 3 Credit Hours.

Advanced study of acting with emphasis on classical and modern material and professional preparation. Prerequisite(s): none.

DRAM 3326. Stage Movement. 3 Credit Hours.

Principles, practices, and exercises in awareness, relaxation, freedom, flexibility, and expressiveness in the actor's physical instrument. Prerequisite(s): None.

DRAM 4292. Theatre Entrepreneurship. 2 Credit Hours.

This course introduces students to the practical components of a freelance theatre career, including networking, marketing and PR, taxes, contracts and legal documents, and producing creative works. Prerequisite(s): none.

DRAM 4310. Play Direction I. 3 Credit Hours.

Directing theory, directing history and play analysis. Emphasis on intrinsic and extrinsic interpretation as well as composition, ensemble and director-actor communication. Research and preparation for theatrical production. Prerequisite(s): none.

DRAM 4312. Play Direction II. 3 Credit Hours.

Application of research and analysis through auditioning, casting, rehearsing and producing a studio one-act play. Application of directing theory, policy and procedure. Prerequisite(s): DRAM 4310.

DRAM 4323. Advanced Acting: Styles of Acting. 3 Credit Hours.

This course explores the world of period acting styles. Performances consist of scene work with partners as well as monologues. The student will be expected to utilize acting techniques for each period studied, including Commedia dell Arte, Elizabethan, and Comedy of Manners styles. Prerequisite(s): DRAM 3321 Intermediate Acting.

DRAM 4324. Acting IV: Styles in Acting. 3 Credit Hours.

DRAM 4324 – Acting IV: Styles in Acting Various acting periods in the historical genre of theatre. Exploration of period mannerisms, physicality, etiquette, social environment and behavior. Prerequisite THE 3323 • Prerequisite(s): DRAM 3323.

DRAM 4330. Theater Seminar. 3 Credit Hours.

Explore topics and issues in theater. Topics will vary. May be repeated twice for credit as topics vary. Prerequisite(s): none.

DRAM 4344. Theatrical Design. 3 Credit Hours.

Survey of principles and practices of theater design and its elements. The fundamentals of art and their application to major areas of theatrical design. Prerequisite(s): None.

DRAM 4375. Auditioning for Musical Theatre. 3 Credit Hours.

This course is designed to give students the confidence and skills needed for auditions in musical theatre. This includes the ability to choose appropriate material for each audition and role and recognizing where they fit into the musical theatre business. The class will include coaching of songs for auditions and incorporating acting, dance, and musical skills to be successful as a working musical theatre performer. Prerequisite(s): None.

DRAM 4388. Acting for the Camera. 3 Credit Hours.

This course is designed to aid the actor in the transition from stage to screen. The course examines the physical requirements, technical differences, and imaginative techniques needed for a stage actor to work in film and television. Students will learn the basics of quickly creating circumstances and situations to inform bold film acting choices. A camera will be used in class each week, and we will discuss the art and business of acting for television and film. Prerequisite(s): none.

DRAM 4391. Advanced Drama Workshop Practicum. 3 Credit Hours.

Advanced experience and instruction in the theatrical production process. Prerequisite(s): none.

DRAM 4393. Directing I. 3 Credit Hours.

Directing I is a comprehensive study of the fundamentals of directing with practical experience provided by directing scenes, observations, written analysis, and discussion. This class requires a high level of in-class participation and group project work. Prerequisite(s): None.

Economics (ECON)

ECON 3301. Intermediate Macroeconomics. 3 Credit Hours.

Study of the aggregate economy introduced in Economics 2301 with emphasis on theory. Learn the Classical and Keynesian systems, general equilibrium theories, economic growth, and public policy in a global setting. Prerequisite(s): ECON 2301.

ECON 3302. Intermediate Microeconomics. 3 Credit Hours.

Explore advanced studies of microeconomic theory. Special emphasis on consumer behavior, production and cost theory, market structure, and factor markets. Prerequisite(s): ECON 2302.

ECON 3303. Money and Banking. 3 Credit Hours.

Study the structure and functions of financial markets and financial intermediaries, the behavior and pattern of interest rates, the basic concepts of commercial bank management, the nature of money and the role of the Federal Reserve in its creation, the basic structure of the economy and the impact of monetary actions on this structure. Credit for both FIN 3303 and ECON 3303 will not be awarded. Prerequisite(s): ECON 2301.

ECON 3304. Environmental Economics. 3 Credit Hours.

Study the economics of the natural environment. Economic tools and issues such as social cost, externalities, cost-benefit analysis, property rights, and state and federal environmental policies will be examined with emphasis on problems associated with water pollution, waste disposal, and society's burden of social costs. Prerequisite(s): 3 hours ECON.

ECON 3305. Economics in Financial Markets. 3 Credit Hours.

Study the aggregate financial system and capital markets and the impact these have on financial intermediaries. Particular emphasis on flow of funds analysis, interest rate theory, role of financial intermediaries, and management of financial assets. Credit for both FIN 3304 and ECON 3305 will not be awarded. Prerequisite(s): FIN 3301 and ECON 3303.

ECON 3306. Political Economy. 3 Credit Hours.

Study the historical, philosophical, and theoretical relationships between the state and the economy. Credit for both POLI 3306 and ECON 3306 will not be awarded. Prerequisite(s): 3 hours of ECON and 6 hours of POLI or permission of instructor.

ECON 4301. International Economics. 3 Credit Hours.

Analyze international economic theory and policy, the foundations of modern trade theory and its extensions, welfare effects of tariffs and non-tariff barriers, commercial policies of the United States, trade policies of developing countries, multinationals, balance of payments, and foreign exchange markets. Prerequisite(s): 3 hours ECON.

ECON 4302. Economic Development of the US. 3 Credit Hours.

Survey of the economic development of the United States from colonial times to the present. Credit for both ECON 4302 and HIST 4302 will not be awarded. Prerequisite(s): ECON 1301 or ECON 2301 and 6 hours HIST.

ECON 4310. Managerial Economics. 3 Credit Hours.

Study economic theory and methodology in business and administrative decision-making. Learn the tools of economic analysis and their use in formulating business policies. Particular emphasis on profits, production and cost functions, demand theory, competitive pricing policies, and business criteria for investment output and marketing decisions. Credit for both FIN 4310 and ECON 4310 will not be awarded. Prerequisite(s): FIN 3301.

ECON 4321. Development of Rural Areas. 3 Credit Hours.

Study the fundamental causes of economic decline in rural areas. Learn application of economic principles and theory to problems of rural areas. Evaluate current methods, and public programs for economic development, with special emphasis on applications of analytical methods to development problems. Prerequisite(s): ECON 2302.

ECON 4365. Intermediate Economics. 3 Credit Hours.

Discuss the American free enterprise system, the nation's economy and its strengths and weaknesses. Examine professional journals, articles, books and reports by the government and private sources, in order to coordinate and apply the analytical knowledge acquired during the period of study. Prerequisite(s): Macroeconomics and microeconomics, college algebra or MATH 3309 or permission of instructor.

ECON 4388. Economic Problems. 1-3 Credit Hours.

Study of selected problems in economics. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Entry into this course will be arranged with the Economics counselor.

ECON 5308. Managerial Economics. 3 Credit Hours.

Study economic theory and methodology to business and administrative decision-making. Utilize the tools of economic analysis to demonstrate and formulate business policies. Particular emphasis on profits, production and cost functions, demand theory, competitive pricing policies, and business criteria for investment output and marketing decisions. Credit for both FIN 5308 and ECON 5308 will not be awarded.

ECON 5359. Economic Applications Issues. 3 Credit Hours.

Examine the application of economic theory in the firm (micro) and in the overall economy (macro), in-depth research and analysis of current economic issues through critical examination of the professional literature and the current environment of business government.

ECON 5364. Global Commerce Seminar. 3 Credit Hours.

Focus on global competitive challenges facing business management teams. Evaluate how companies have strategically entered and developed international markets and managed global diversification. Learn to analyze international market potential, assess business risks and become familiar with institutions and national policies directing international trade.

ECON 5388. Economic Problems. 1-3 Credit Hours.

Study selected problems in economics. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need.

Education (EDUC)

EDUC 3105. Music in the Elementary Classroom. 1 Credit Hour.

This course provides teaching candidates with the knowledge and skills necessary to teach music to early childhood and elementary students. Teacher candidates will learn to plan and engage students in integrated learning experiences in the classroom and in special areas such as music rooms. Prerequisite(s): none.

EDUC 3106. Health and Fitness in the Elementary Classroom. 1 Credit Hour.

This course provides teacher candidates with the knowledge and skills necessary to teach physical education and health to early childhood and elementary students. Teacher candidates will learn to plan and engage students in integrated learning experiences in the classroom and special areas. Prerequisite(s): none.

EDUC 3107. Art and Theater in an Elementary Classroom. 1 Credit Hour.

This course provides teaching candidates with the knowledge and skills necessary to teach art and theatre to early childhood and elementary students. Teacher candidates will learn to plan and engage students in integrated learning experiences in the classroom and special areas. Prerequisite(s): none.

EDUC 3300. World Regional Geography for Educators. 3 Credit Hours.

Examine practices for teaching World Regional Geography. Required for a Bachelor of Science degree in Interdisciplinary Studies and for teacher certification. Must be completed before students attempt the TExES, the teacher certification exam, and before student teaching.

EDUC 3310. Theories of Learning. 3 Credit Hours.

(WI) This course examines influential learning theories and the implications of these theories for educational practice. Survey of seminal theorists and their contributions to understanding how learning occurs and how learners develop and construct meaning to acquire knowledge and skills. This course should be taken in the first block of the teacher education program. Prerequisite(s): Admission to teacher education block 1.

EDUC 3315. Literacy Instruction for Bilingual Classroom. 3 Credit Hours.

Examine knowledge and skills required to teach limited English language learners, with an emphasis on program implementation, curriculum, materials, oral language, literacy development and assessment strategies. Spanish and English will be spoken in this class. Prerequisite(s): Passing scores on the BTLPT – Spanish (Bilingual Target Language Proficiency Test) – Spanish, EDUC 3325, EDUC 3320 and READ 3311.

EDUC 3321. Instructional Planning and Delivery. 3 Credit Hours.

This course addresses the lesson cycle; instructional models; use of technology to enhance instruction; resources to plan, deliver and assess instruction; the role of assessment in driving instruction; and Texas Essential Knowledge and Skills (TEKS). This course should be taken in the first block of the teacher education program. Prerequisite(s): Admission to teacher education block 1.

EDUC 3325. Fundamentals of Bilingual and English as a Second Language Education. 3 Credit Hours.

Examine history, philosophies, theoretical, and legal foundations regarding Bilingual/English as a Second Language education. Learn the knowledge and skills required to teach English Language Learners, with an emphasis on instructional strategies. Prerequisite(s): EDUC 3320.

EDUC 3330. Professional Development II: Effective Instruction. 3 Credit Hours.

Examine the relationship between the state-adopted curriculum, learner-centered proficiencies, and best practices. Study lesson cycles, models of learning, instruction, uses of technology, assessment, classroom management, micro-teaching and field experience. Classroom management lab and documentation of field experiences are required. Prerequisite(s): EDUC 3320 and admission to the Teacher Education Program.

EDUC 3331. Classroom Management. 3 Credit Hours.

This course introduces various classroom organizational strategies, offers preservice teachers ideas for effective classroom management, and develops an understanding of the value of collaborating within the school community. The course addresses the creation of safe and supportive learning environments that foster high levels of student engagement and maximize student learning. This course should be taken in the first block of the teacher education program. Prerequisite(s): Admission to teacher education block 1.

EDUC 3350. Science Instruction for Classroom Teachers. 3 Credit Hours.

Study for preservice educators to plan, organize, deliver, and evaluate developmentally appropriate educational strategies and instructional techniques in teaching science to diverse learners. Design responsive instruction appropriate for all learners which reflects an understanding of relevant science content, promotes active engagement, and is based on continuous and appropriate assessment.

EDUC 3360. The Arts for Educators. 3 Credit Hours.

This methods course is concerned with providing experience for preservice educators to plan, organize, deliver, and evaluate developmentally appropriate educational strategies and instructional techniques in teaching the arts to diverse learners. The students design responsive instruction appropriate for all learners which reflects an understanding of relevant music, art and theater content, promotes active engagement, and is based on continuous and appropriate assessment.

EDUC 3370. Foundations of Education and Teaching. 3 Credit Hours.

(WI) This course is designed to develop advanced strategies to identify readiness for learning; and to understand when and how to adjust content, process, or product in order to differentiate responsive instruction effectively. This course should be taken in the first block of the teacher education program. Certification Fee - \$150. Prerequisite(s): Minimum 2.5 GPA.

EDUC 3371. Educational Technology and Assessment. 3 Credit Hours.

This course is designed to develop the capacity of preservice educators to plan, organize, deliver, and assess instruction for diverse learners through the effective use and integration of current and innovative educational technology to enhance academic outcomes for K-12 students. Use of technology for ethical and professional communication with colleagues, community, and students.

EDUC 4304. Early Childhood Environments Professional Development III. 3 Credit Hours.

Study all aspects of classroom management, including the physical environment and use of centers for diverse groups of early elementary students. Examine current issues related to early childhood education. Demonstrate developmentally appropriate effective teaching practices in field-based setting. Prerequisite(s): Admission to the Teacher Education Program, Application for Practicum, READ 3330, EDUC 3325, EDUC 3330, EDUC 3340 and EDUC 3350; Concurrent enrollment in READ 4304, READ 4305 and EDUC 4320. Field experience fee \$75.

EDUC 4305. Language Concepts and Proficiencies in a Bilingual Classroom. 3 Credit Hours.

Examine curriculum requirements as applicable to bilingual education, language concepts and proficiencies needed for teaching language arts, math, science, and social studies in bilingual classrooms. Evaluate commercial and research-based programs in order to adapt materials for students with varying degrees of language and literacy proficiency. Field experiences required. Prerequisite(s): Passing scores on the BTLPT – Spanish (Bilingual Target Language Proficiency Test-Spanish), EDUC 3325, EDUC 3315, READ 3311 and READ 3335.

EDUC 4312. Literacy Development II. 3 Credit Hours.

(WI) A field-based course surveying characteristics of the transitional/independent literacy learner, methods of instruction for writing, strategy building, comprehension, vocabulary, word identification, utilizing the Texas Essential Knowledge and Skills. Examines typical/atypical reading development and strategies for assessing/addressing reading differences in individual learners. Explores structures and features of expository text including examination of supports and challenges within the text.

EDUC 4315. Elementary Curriculum, Assessment and Instruction. 3 Credit Hours.

Implement assessment-driven instruction and curricular design in interdisciplinary contexts. Apply knowledge of developmental stages, learner needs, and the stated expectations of TEKS in the core content areas to design, implement, and evaluate an interdisciplinary curriculum. Study effective teaching practices, problem based learning and technology applications. Pre-requisites EDUC 3320, EDUC 3330 and concurrent enrollment in EDUC 4304, READ 4304 and READ 4305.

EDUC 4317. Assessment & Interpretation for Secondary Teachers. 3 Credit Hours.

This course is for students seeking a secondary certification to examine technology driven design and implementation of data-driven instruction to include the implementation of effective assessments, student data collection, analysis, interpretation, and communication aligned to learning goals for a diverse student population. The objective of this course is for the secondary pre-service teachers to be able to demonstrate the ability to effectively collect, analysis and communicate student data for continuous teaching and learning for diverse students. Prerequisite(s): Admittance into the Teacher Education Program.

EDUC 4320. Integrated Social Studies Methods, EC-8. 3 Credit Hours.

This methods course is concerned with providing experience for preservice educators to plan, organize, deliver, and evaluate developmentally appropriate educational strategies and instructional techniques in teaching Social Studies through the integration of English Language Arts and Fine Arts. It correlates social studies content with the National Council of Social Studies Strands and disciplines and the Texas Essential Knowledge and Skills.

EDUC 4322. Advanced Differentiated Strategies for Diverse Learners. 3 Credit Hours.

Study advanced methods and materials for supporting diverse learners, including children and students of all abilities from racially, ethnically, culturally, historically underserved, and linguistically diverse communities and backgrounds. Course will focus on supporting students from disadvantaged backgrounds, with emphasis on research-based instructional strategies that promote academic vocabulary, academic growth, and cultural wealth. Emphasis will be on helping teachers become effective at differentiating instruction to meet the needs of diverse learners, including planning lessons that promote native language usage, collaborative learning, and effective grouping techniques. Prerequisite(s): EDUC 3325 and Admitted into the Educator Preparation Program.

EDUC 4325. History for Educators. 3 Credit Hours.

This methods course is concerned with providing experience for pre-service educators to plan, organize, deliver, and evaluate developmentally appropriate educational strategies and instructional techniques in teaching US, Texas and world history to diverse learners. The students design responsive instruction appropriate for all learners which reflects an understanding of relevant history content, promotes active engagement, and is based on continuous and appropriate assessment.

EDUC 4330. Professional Development III. 3 Credit Hours.

Field-based and practicum experiences are required in school settings, where students plan units of instruction, examine various models of instruction, analyze classroom management strategies, and demonstrate competencies in effective teaching practices. Prerequisite(s): Admission to the Teacher Education Program, EDUC 3330 and READ 3335. Field experience fee - \$75.

EDUC 4331. Curriculum & Instruction for Secondary Teachers. 3 Credit Hours.

The course will study lesson planning, lesson cycles, learning styles and strengths of diverse learners. Additionally, teacher candidates will explore learner-centered instruction and strategies, brain-based learning, cooperative learning, assessment, classroom management, integration of technology, and the state-adopted curriculum (TEKS). The teacher candidates will examine the relationship between the state-adopted curriculum, learner-centered proficiency, and best practices. Field experiences 25 hours are required as well as \$25 field experience fee. Additionally, a fee of \$150 is due for certification. Prerequisite(s): Admission to the Teacher Education Program.

EDUC 4332. Classroom Management for Secondary Teachers. 3 Credit Hours.

This course provides secondary educators with knowledge and skills to create safe, supportive, and respectful learning environments. Students will analyze classroom management strategies and examine various modes of instruction. An analysis of legal and ethical issues as they relate to the classroom are an important component of the course. Secondary students will have field-based experience based on in-school settings. Admittance into the Teacher Education Program. Prerequisite(s): Admittance into the Teacher Education Program. Field Experience required. Field Experience Fee: \$25.

EDUC 4335. Capstone for Educators. 3 Credit Hours.

Capstone is a culminating course designed for teacher candidates to synthesize their knowledge across the program through the development of artifacts that demonstrate effective integration of content understanding and pedagogical skills. The teacher candidates will analyze student learning and reflect on their teaching effectiveness in order to facilitate learning for all students. Prerequisite(s): Admittance to the Teacher Education Program, successful completion of Content Certification Examination, and concurrent enrollment in Clinical Teaching (EDUC 4691).

EDUC 4337. Educating Secondary Exceptional Learners. 3 Credit Hours.

This course provides instruction in the historical, philosophical, and legal foundations of exceptional education as related to current issues and practices in educational settings. It comprises issues and trends that include transition – related instruction, postsecondary programs, and adaptability to and in secondary classrooms. Teacher candidates will develop an awareness of legal aspects of exceptional education as well as needs and services specific to students with specific needs in the secondary classroom. Prerequisite(s): Field experience required. Field experience fee \$25.

EDUC 4338. Secondary Methods for the Humanities Teacher. 3 Credit Hours.

This methods class focuses on middle and secondary teaching practices that meet the needs of today's classroom in the areas of English Language Arts, Social Studies, and History. Emphasis is placed on cross-disciplinary unit planning, strategies for the diverse learner, and authentic assessments. Prerequisite(s): Must be admitted into EPP.

EDUC 4340. Technology Application and Integration for Classroom Teachers. 3 Credit Hours.

Study for preservice educators to plan, organize, deliver, and evaluate instruction for diverse learners through the effective use and integration of current technology. Use of technology for ethical and professional communication with colleagues, community, and students. Prerequisite(s): Admission to Clinical Teaching; successful completion of designated content area Texas Examination of Educator Standards (TExES); concurrent enrollment in EDUC 4691 and EDUC 4335 or permission of department chair.

EDUC 4345. Mathematics & Science Methods in the Elementary Classroom. 3 Credit Hours.

This purpose of this course is to help preservice teachers discover how elementary children think and learn about mathematics. Examines the curriculum foundations and instructional methods for elementary mathematics. Building upon previous mathematical knowledge, and with a focus on supporting high quality mathematics education, this course provides resources and opportunities for experience with a number of instructional strategies and manipulatives. Science instruction focuses on the methods, materials and approaches for teaching science, including developmentally appropriate introductions to the physical, earth and life sciences. This course should be taken in the third block of the teacher education program. Prerequisite(s): Admission to teacher education program.

EDUC 4384. Classroom Teaching Internship. 3 Credit Hours.

Explore supervised field-based activities in public school classrooms. Major emphasis is placed on the development of instructional strategies and professional practices designed to improve teaching performance. May be repeated for credit. Prerequisite(s): Admission to the Teacher Education Program. Field experience fee - \$75.

EDUC 4388. Education Problems. 1-3 Credit Hours.

Study of selected problems in education. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Prerequisite(s): Junior or senior standing, admission to the Teacher Education Program and permission of Curriculum and Instruction Program Coordinator.

EDUC 4684. Field Experience. 6 Credit Hours.

Supervised field-based experiences in public school classrooms. Major emphasis is placed on the identification and exploration of instructional strategies, the learning environment, and professional practices designed to prepare for clinical teaching. This course should be taken in the third block of the teacher education program. Field experience fee: \$75.00 Prerequisite(s): Admission to teacher education program.

EDUC 4691. Clinical Teaching. 6 Credit Hours.

Explore supervised clinical teaching in the public schools at the appropriate level (1-18). A demonstration of proficiency in the application of effective teaching practices and classroom management strategies is required. Prerequisite(s): Admission to Clinical Teaching and the successful completion of designated content area of the Texas Examination of Educator Standards (TExES): Concurrent enrollment in EDUC 4335 and EDUC 4340*, or permission of department chair. * 7-12 math students may take MATH 3315 in place of EDUC 4340. Field experience fee - \$75.

EDUC 5090. Education Comprehensive Examination. 0 Credit Hours.

Study and take the education examination for Non-thesis students. Register for the comprehensive examination during final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis student do not take this examination.

EDUC 5198. Education Thesis. 1-6 Credit Hours.

Independent research course in which a student proposes and completes an original, quantitative research project. Scheduled when the student is ready to begin thesis. No credit awarded until proposal and thesis are complete. Prerequisite(s): Completion of all other coursework required for the degree and consent of the major professor or permission of department chair.

EDUC 5300. Foundations and History of Education. 3 Credit Hours.

Examine history of education in the United States through a study of the philosophical, historical, psychological and social foundations of curriculum. Emphasis is on the development of a philosophy of education and critical thinking about issues in education. Students must complete this course within the first twelve semester hour of graduate study.

EDUC 5301. Readings in Professional Development. 3 Credit Hours.

Examine current issues in the professional development of educators. Study models of professional development, impact of professional development on public school student achievement, effective evaluation of professional development, and identification of best practice in writing and evaluating research with an emphasis on literature reviews.

EDUC 5302. Cultural Diversity in Schools and Community. 3 Credit Hours.

Examine various dimensions of culture related to teaching, learning, and support services in the community. Study ethnicity, socio-economic status, language, gender, religion, age, and exceptionality.

EDUC 5304. Human Development. 3 Credit Hours.

Analyze human behavior with emphasis on the child, adolescent, and adult learner. Develop insight and social and cultural forces in the formation of personality, the self, and roles in group membership.

EDUC 5306. Adult Education. 3 Credit Hours.

Examine philosophy and concepts of adult education including the role of the adult educator, setting of objectives, integration of adult learning with career goals or changes and assessment of educational needs of adults.

EDUC 5311. Methods of Effective Teaching. 3 Credit Hours.

Study research on effective teaching practices with an emphasis on direct instruction. Learn mastery learning, assessment of learning and use of assessment to guide instruction. Apply technology and effective teaching practices to the design and delivery of instruction. Prerequisite(s): Admitted into the Educator Preparation Program.

EDUC 5312. Teaching Language Arts and Social Studies. 3 Credit Hours.

This course prepares students to plan, organize, and deliver developmentally appropriate educational strategies and instructional techniques in teaching Social Studies through the integration of English Language Arts and Fine Arts. Prerequisite(s): Admitted into the Educator Preparation Program.

EDUC 5314. Creating and Managing the Learning Environment. 3 Credit Hours.

Create and maintain a positive, safe, and supportive learning environment. Develop strategies to foster a high level of student engagement and maximize student learning. Study cultural dimensions of classroom management, motivating student achievement, fostering cooperation among students, reinforcing appropriate behavior, and identifying legal and ethical issues governing teacher-student interactions. Prerequisite(s): Admitted into the Educator Preparation Program.

EDUC 5322. Teaching Mathematics and Science. 3 Credit Hours.

Study methods and materials for the teaching of math and science. Emphasis will be on helping teachers become more effective in teaching math and science by developing questions, investigations, speculations, and explorations that reflect not only the content of each area of study, but the process involved in learning. Prerequisite(s): Admitted into the Educator Preparation Program.

EDUC 5334. Curriculum for Early Childhood. 3 Credit Hours.

Study early childhood education curriculum and practices. Examine current trends in early childhood curriculum with an emphasis on the modifications needed to ensure the success of all young children. Prerequisite(s): 18 hours of professional educational course work.

EDUC 5338. Curriculum Design and Implementation. 3 Credit Hours.

Explore curriculum selection, design, implementation, and evaluation processes within the classroom and school district settings. Study factors that influence curriculum decision-making processes and a review of theories of curriculum development. Major emphasis on curriculum alignment and curriculum auditing.

EDUC 5340. Evidence Based Teaching. 3 Credit Hours.

In this course, participants will learn about various instructional strategies to enhance learning experiences in education. The class will cover appropriate methods and techniques from basic principles of learning and brain-based/whole-brain techniques. The course will also foster the development of working skills needed in cooperative planning, selecting, and organizing teaching materials, utilization of the environment, individual and group guidance, and evaluation activities.

EDUC 5345. Advanced Instructional Strategies for Diverse Learners. 3 Credit Hours.

Study appropriate methods and techniques from basic principles of learning. Develop working skills needed in cooperative planning, selecting, and organizing teaching materials, utilization of the environment, individual and group guidance, and evaluation activities.

EDUC 5350. Assessment and Technology for Educators. 3 Credit Hours.

This course examines assessment as a process with emphasis on assessment of student achievement and on data interpretation for the purpose of improving instruction. Additionally, it will explore ways in which newer technologies can be integrated effectively in educational settings for the enhancement of teaching and learning. Prerequisite(s): Admitted into the Educator Preparation Program.

EDUC 5355. Effective Instructional Programs. 3 Credit Hours.

Study research-based best instructional and curricular practices and the evaluation and enhancement of instructional and curricular programs related to identified best practices.

EDUC 5360. The Gifted Learner. 3 Credit Hours.

Study characteristics and needs of gifted and talented students as they relate to both school and family settings. Different models and programs for gifted education will be studied. Formal and informal identification procedures will be examined in line with federal and state guidelines.

EDUC 5362. Creativity In the Classroom. 3 Credit Hours.

Study theories and models of creativity. Emphasis will be given to identifying the creative potential of students in all classrooms. Examine and develop instructional processes which accommodate the needs of creative learners. Prerequisite(s): EDUC 5360.

EDUC 5364. Curriculum and Material Development For Gifted Learners. 3 Credit Hours.

Study a comparison of regular and gifted curricula with a focus on developing an interdisciplinary curriculum for gifted learners. Examine and evaluate existing materials and equipment which support instruction for the gifted in both regular and special programs. Emphasis will be on developing and evaluating teacher constructed materials. Prerequisite(s): EDUC 5360.

EDUC 5366. Instruction and Evaluation For Gifted Learners. 3 Credit Hours.

Analyze methods of determining specific learning styles and talents, with emphasis placed on implementing appropriate instruction for programs. Learn methods and tools of informal and formal evaluation and assessment. Prerequisite(s): EDUC 5360 and EDUC 5364.

EDUC 5369. Education Seminar. 1-3 Credit Hours.

Presentation of project proposal, implementation, and conclusions. Must be repeated a minimum of 3 times for 1 hour credit each semester to complete masters project. Student must be continuously enrolled until the graduate project is completed.

EDUC 5370. Techniques of Research. 3 Credit Hours.

Explore fundamental concepts and tools of research applied to psychological and educational problems. Study rationale of research, analysis of problems, library skills, sampling, appraisal instruments, statistical description and inference, writing the research report, and representative research designs.

EDUC 5384. Teaching Internship. 3 Credit Hours.

Gain field-based experience in classroom teaching. Interns must demonstrate proficiency in applying effective teaching practices and classroom management strategies in a school classroom. Prerequisite(s): admission to a teacher certification program; satisfactory performance in the professional development courses preceding the internship. May be repeated for credit. Field experience fee - \$75 or Internship fee - \$1500 (effective fall 2016-summer 2021) or Internship fee \$1,000 (effective fall 2022).

EDUC 5385. Teaching Internship II. 3 Credit Hours.

Explore a supervised field-based experience in classroom teaching. Interns must demonstrate proficiency in applying effective teaching practices and classroom management strategies in a school classroom. Prerequisite(s): Admission to a teacher certification program at TAMUCT; satisfactory performance in the professional development courses preceding the internship; Second semester Prerequisite(s): EDUC 5384. Field experience fee - \$75 or Internship fee - \$1500 (effective fall 2016-summer 2021) or Internship fee \$1,000 (effective fall 2022).

EDUC 5388. Special Education Problems. 1-6 Credit Hours.

Study of selected problems in special education. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Open to graduate students who are capable of developing a problem independently. Prerequisite(s): Graduate major in Education.

EDUC 5389. Special Topics In Education. 3 Credit Hours.

Examine different topics each semester with a focus on such subjects as the gifted student, the education of culturally disadvantaged, teacher evaluation, or other selected topics concerning the teaching/learning process. This course may be repeated for credit as topic changes. Prerequisite(s): Permission of instructor.

EDUC 5391. Gifted Education Practicum. 3 Credit Hours.

Supervise professional activities in gifted and talented programs. Students will be required to demonstrate competence in the process of delivering a synergistic gifted and talented program. Prerequisite(s): Successful completion of EDUC 5360, EDUC 5362, EDUC 5364 and EDUC 5366.

EDUC 5691. Clinical Teaching. 6 Credit Hours.

Clinical teaching is the capstone of the teacher education program and provides candidates the opportunity to apply knowledge and skills from core education coursework, with a focus on differentiated instructional practices, multiple learning environments, professional collaboration, school policies and procedures, and reflective practice. Experience includes directed activities in off-campus school settings and on-campus seminars. Field experience fee - \$1,050.00. Prerequisite(s): Successful completion of TExES content area exam and certification courses.

Educational Leadership (EDLD)

EDLD 5090. Educational Leadership Capstone. 0 Credit Hours.

This course emphasizes the integration, synthesis, and evaluation of major concepts and principal standards encountered during program coursework. Students will be expected to articulate a personal leadership approach aligned to principal standards, as well as demonstrate a broad-based understanding and application of best practices and trends in educational leadership. Prerequisite(s): Students must complete at least 24 hours of programmatic coursework before registering.

EDLD 5198. Educational Leadership Thesis. 1-6 Credit Hours.

Prepare for and write the educational leadership thesis for graduate students. Scheduled when the student is ready to begin the thesis. No credit until the thesis is completed. Prerequisite(s): Completion of all other coursework required for the degree and consent of the major professor or permission of department chair.

EDLD 5300. Foundations of Educational Leadership. 3 Credit Hours.

Study lenses of power, influence, ethics, and leadership theory. Compare personal diagnoses of leadership, learning, and personality strengths to the knowledge and skill set needed for leadership of preK-12 schools. Course fee \$150 for Advancing Educational Leadership (AEL) certificate. Prerequisite(s): Approval of Program coordinator.

EDLD 5301. Research in Educational Leadership. 3 Credit Hours.

Study the fundamentals of research with emphasis on research terminology, design, methodology, data collection, ethics, psychometric measurement qualities, and quantitative and qualitative research paradigms. Develop research and evaluation skills necessary to become critical consumers and producers of research in preK-12 schools. Prerequisite(s): Approval of program coordinator.

EDLD 5307. Leadership of Human Resources. 3 Credit Hours.

Examine supervision and evaluation of faculty and staff in preK-12 schools. Study effective supervisory and evaluation approaches for the development of a continuous improvement learning culture for faculty and staff. Prerequisite(s): Admission to program and approval of program coordinator.

EDLD 5309. Legal Issues in School Leadership. 3 Credit Hours.

Explore legal issues impacting the administration of preK-12 schools. Understand the ethical application of legal principles found in relevant constitutional, statutory, administrative, and case law. Learn how these laws and principles determine operation, organization, and administration of preK-12 schools. Special emphasis is placed on the relationship of state and federal law. Prerequisite(s): Admission to program and approval of program coordinator.

EDLD 5310. Special Educational Law. 3 Credit Hours.

Examine the legal framework for special education in the United States. Understand federal constitutional provisions, federal and state statutes, and federal and state judicial decisions affecting special education, including the rules and regulations for the various federal and state agencies.

EDLD 5316. Leadership of Effective Instruction. 3 Credit Hours.

The study of effective teaching and learning practices. Develop effective instructional practice in preK-12 schools with use of data analysis, research-based instructional strategies, special programs support, technology integration, and teacher collaboration. Special emphasis on maintaining a continuous improvement cycle to ensure equity and engagement of all students. The Texas Teacher Evaluation and Support System (T-TESS), a state-required teacher appraiser certification course, is included. A fee is connected to this course. Prerequisite(s): Admission to program and approval of program coordinator.

EDLD 5317. Public School Finance and Fiscal Management. 3 Credit Hours.

Study the principles of school finance, budgeting, and accounting procedures used in school districts. Special emphasis is placed on the development of a working knowledge of the history of school finance, current and emerging financial issues, litigation, budget development, fiscal policy, and accountability. Prerequisite(s): EDLD 5318 and EDLD 5336 or permission of department chair. Certification Fee - \$150.

EDLD 5318. Administrative Law and Personnel Administration. 3 Credit Hours.

A comprehensive study of public school law as it relates to contractual and at-will personnel. Emphasis is placed on advertising, interviewing, selecting, and evaluating personnel. Special attention is given to Equal Employment Opportunity guidelines, Federal Right to Privacy Act, employee contracts, induction, and recordkeeping. Prerequisite(s): Superintendent Certificate Program admission or permission of department chair.

EDLD 5319. The School Superintendency. 3 Credit Hours.

Examine the roles and responsibilities of the chief school administrator. Emphasis is placed on the range of leadership skills that executive leadership utilize to work with the community, school board, professional staff, and students in development of a capacity-building culture and district vision. Prerequisite(s): EDLD 5318 and EDLD 5336 or permission of department chair.

EDLD 5335. Educational Planning and Resource Development. 3 Credit Hours.

Develop a sustainable leadership process and examine the role of leadership in educational planning. Study strategic planning and the use of district's major administrative systems and resources to fulfill organizational goals. Prerequisite(s): EDLD 5317, EDLD 5318, EDLD 5319 and EDLD 5338 or permission of department chair.

EDLD 5336. Instructional Development and School Improvement. 3 Credit Hours.

Examine state policy affecting instructional improvement on public school campuses. Special emphasis is placed on results-based accountability systems. Explore curriculum planning and evaluation, professional development, student assessment, and data analysis utilized to develop and sustain a learning system that meets the needs of all students. Prerequisite(s): Superintendent Certificate Program admission or permission of department chair.

EDLD 5339. Processes of Educational Leadership. 3 Credit Hours.

Study effective organizational processes in preK-12 schools. Special emphasis on learning organization strategies, exemplary leadership practices, and collaborative action tools, in order to support the development of a flexible and creative culture continuously engaged in school improvement. An EDLD certification support training, materials, and event fee is connected to this course. Prerequisite(s): Admission to program and approval of program coordinator.

EDLD 5342. Leadership of Campus Resources. 3 Credit Hours.

The study of school resources in support of school improvement. In addition, candidates will study effective supervisory and evaluation approaches for the development of a continuous improvement learning culture for faculty and staff. An integrated continuous improvement system supported by optimal allocation of financial, human, technological, facility, time, and other campus resources provides the focus for development of a safe and engaging school learning environment. The purpose of this course is to provide aspiring principals with the opportunity to apply their program learning as they build skill in organizing the development, implementation, monitoring, and evaluation of continuous school improvement. An integrated continuous improvement system – the School Portfolio – supported by optimal allocation of financial, human, technological, facility, time, and other campus resources provides the focus for development of a safe and engaging school learning environment. Prerequisite(s): Admission to program and approval of program coordinator.

EDLD 5340. School-Community Relationships. 3 Credit Hours.

Systems of interpretation of schools to community publics. Promotion of effective school-community relations through media of communication.

EDLD 5345. Leadership of Learning Systems. 3 Credit Hours.

Study learning systems in prek-12 schools. Develop and implement coherent processes that are responsive to unique student needs, establish a culture of high expectations and continuous improvement, align academic standards across grade levels and subject areas, and ensure academic success and social-emotional well-being for each student. Prerequisite(s): Admission to program and approval of program coordinator.

EDLD 5355. Leadership of Diverse Learning Communities. 3 Credit Hours.

Study diverse prek-12 school communities with an emphasis on ethical issues dealing with leadership, governance, and policy development. Develop processes for identifying and ameliorating issues associated with demographic and cultural differences. Learn to facilitate internal and external community engagement to achieve equity and excellence within the school system. Prerequisite(s): Admission to program and approval of program coordinator.

EDLD 5360. Educational Leadership Applications. 3 Credit Hours.

Apply leadership theory to campus leadership practice. Analyze critical issues in school leadership through the integration of the roles of the principal with professional experience. Master's degree comprehensive exam and state principal certification exam/performance assessment preparation are included. Prerequisite(s): Admission to program and approval of program coordinator. Important Note: All students enrolled in EDLD 5360 must enroll in EDLD 5090 Comprehensive Exam zero-credit hour course.

EDLD 5388. Problems. 1-3 Credit Hours.

Open to graduate students who are capable of developing a problem independently. Problems are chosen by the student and approved in advance by the instructor. Prerequisite(s): Full admission into the Office of Graduate Studies and a graduate degree or certification program.

EDLD 5389. Special Topics In Educ Admin. 3 Credit Hours.

An examination of different topics each semester with a focus on contemporary issues in Educational Administration and leadership. This course may be repeated for credit as the topic changes.

EDLD 5391. Superintendency Practicum. 3 Credit Hours.

Demonstrate competent professional practice through supervised activities in the culminating experience for the Superintendent Certificate Program. Implement an action plan for professional growth and school district improvement based on state standards and leadership practices. For satisfactory completion of practicum requirements, course may be repeated one time. Only 3 semester hours of coursework can be used to satisfy certification requirements. Field experience fee - \$75. Prerequisite(s): EDLD 5317, EDLD 5318 and EDLD 5319 or permission of program coordinator.

EDLD 5392. Principalship Practicum. 3 Credit Hours.

The Principalship Practicum 1 course is delivered the first semester of the two-semester practicum experience. Candidates in the course will demonstrate competent professional practice through supervised activities in the culminating experience for the MEd/Principal Certificate program. Candidates will also implement an action plan for professional growth and school improvement based on state standards and leadership practices. For satisfactory completion of practicum requirements, course may be repeated one time. Field experience fee - \$75. Prerequisite(s): Admission into program and approval of program coordinator.

EDLD 5393. Principalship Practicum 2. 3 Credit Hours.

The Principalship Practicum 2 course is delivered the second semester of the two-semester practicum experience. Candidates in the course will demonstrate competent professional practice through supervised activities in the culminating experience for the MEd/Principal Certificate program. Candidates will also implement an action plan for professional growth and school improvement based on state standards and leadership practices. For satisfactory completion of practicum requirements, course may be repeated one time. Field experience fee - \$75. Prerequisite(s): Admission into program and approval of program coordinator.

Educational Technology (EDTE)

EDTE 3300. Desktop Publishing in Classroom. 3 Credit Hours.

Explore applications relating to digital graphics, printing techniques, animation products, and editing tools used in desktop publishing. Analyze K-12 Technology Applications Texas Essential Knowledge and Skills (TEKS) and create a variety of desktop publishing products for use in future classrooms.

EDTE 3305. Multimedia in the Classroom. 3 Credit Hours.

An application of multimedia, graphics, and animation tools used for teaching Technology Applications. Students will apply appropriate techniques and strategies to create lesson plans and examples for use in the classroom. Prerequisite(s): EDTE 3300.

EDTE 3315. Teacher Technology Application. 3 Credit Hours.

Explore field based opportunities in area schools for students to observe technology applications teachers at all levels (EC-12) and explore computer lab management in K-12 learning environments. Prerequisite(s): EDTE 3305 and EDUC 3320.

EDTE 4300. Video in the Classroom. 3 Credit Hours.

Learn to teach video, graphics, and animation in K-12 Technology Applications classes. Apply tools and techniques for integrated video technology to enhance the learning environment and prepare exemplar videos and lesson plans for future classroom use. Prerequisite(s): EDTE 3315, EDUC 3320 and admission to Teacher Education Program.

EDTE 4305. Web Mastering. 3 Credit Hours.

Explore and use Web technology in educational settings. Study appropriate technologies and techniques to plan and implement web based instructional products for use in the K-12 classroom. Create lesson plans and exemplar products appropriate for teaching Technology Applications in Web mastering. Prerequisite(s): EDTE 4300 and EDUC 3330.

EDTE 4310. Learning, Leading and Assessment. 3 Credit Hours.

Study K-12 learning outcomes, data analysis, instructional decision making, and mentoring skills necessary for peer support. Apply tools for enhancing professional growth and productivity and use technology in communicating, collaborating, conducting research, and solving problems that typically arise in learning environments. Prerequisite(s): EDUC 3330.

EDTE 4388. Educational Technology Problems. 1-3 Credit Hours.

Study of selected problems in educational technology. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Open to students of Junior or senior standing who have been admitted to the Teacher Education Program and permission of instructor and Curriculum and Instruction Program Coordinator.

EDTE 5348. K-12 Educational Technology. 3 Credit Hours.

This course focuses on K-12 learning outcomes, data analysis, and instructional decision making. Mentoring skills necessary for peer support are also explored. Students will apply tools for enhancing their own professional growth and productivity and will use technology in communicating, collaborating, conducting research, and solving problems that typically arise in learning environments.

EDTE 5349. Educational Media and Technology. 3 Credit Hours.

Examine the role of technology in school settings and explore available technologies and the applications for instruction. Focus is on Web 2.0 applications for communication and collaboration that expand and extend learning environments.

EDTE 5350. Teaching Desktop Publishing. 3 Credit Hours.

Integrate tools of desktop publishing and graphic applications to successfully demonstrate knowledge and skills needed to teach Desktop Publishing. Explore current research in the area of technology applications. Apply tools for enhancing professional growth and productivity and use technology in communicating, collaborating, conducting research, and solving problems that typically arise in learning environments. Prerequisite(s): EDTE 5349.

EDTE 5351. Multimedia Animation for Kindergarten through 12th Grade. 3 Credit Hours.

Integrate tools of multimedia, graphics, and animation to successfully demonstrate knowledge and skills necessary to teach the Technology Applications Texas Essential Knowledge and Skills (TEKS). Explore current research in the area of multimedia and use technology in communicating, collaborating, conducting research, and solving problems that typically arise in learning environments. Prerequisite(s): EDTE 5350.

EDTE 5352. Teaching Kindergarten through 12th Grade Video Technology. 3 Credit Hours.

Integrate tools of video and animation to successfully demonstrate knowledge and skills needed to teach the Technology Applications Texas Essential Knowledge and Skills (TEKS). Explore current research in the area of video technology and use technology in communicating, collaborating, conducting research, and solving problems that typically arise in learning environments. Prerequisite(s): EDTE 5351.

EDTE 5359. Leading and Learning with Technology. 3 Credit Hours.

Learn to demonstrate the knowledge and skills necessary to teach Web mastering. Explore current research in the area of web-based applications and will use technology in communicating, collaborating, conducting research, and solving problems that typically arise in learning environments. Prerequisite(s): EDTE 5352.

EDTE 5388. Educational Technology Problem. 1-3 Credit Hours.

Study of selected problems in educational technology. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Open to graduate students who are capable of developing a problem independently and permission of instructor and Curriculum and Instruction Program Coordinator. Prerequisite(s): Full admission to the Office of Graduate Studies and a graduate degree or certification program.

English (ENGL)

ENGL 3100. Discourse Theory & Application. 1 Credit Hour.

Students will receive instruction and training in written discourse theory and practice as appropriate and necessary preparation for tutoring in the University Writing Center and/or the English and Languages Department Language Arts Lab. Students must receive prior permission to enroll. Prerequisite(s): ENGL 1301.

ENGL 3300. Introduction to Gender Studies. 3 Credit Hours.

This interdisciplinary course introduces students to key concepts in the field of gender and sexuality studies. An emphasis is placed on key terms and important figures in the development of feminism as an activist movement and as a field of academic inquiry. Prerequisite(s): ENGL 1301 or permission of instructor.

ENGL 3303. Western Literature I. 3 Credit Hours.

A survey of Western Literature from ancient times through the Renaissance. Prerequisite(s): ENGL 1301.

ENGL 3304. Western Literature II. 3 Credit Hours.

A survey of Western Literature from the Enlightenment to the Present. Prerequisite(s): ENGL 1301.

ENGL 3305. Critical Analysis of Lit. 3 Credit Hours.

(WI) A study of contemporary criticism as it relates to the study of form, theory, and content of fiction, nonfiction, drama, poetry, and other artistic expression. Prerequisite(s): ENGL 1301.

ENGL 3306. Readings in Adolescent Lit. 3 Credit Hours.

Study of literature written for teenage and young adult audiences. Readings may include both classic and contemporary selections with thematic-, period-, or genre-based contexts. Study is concerned with increasing student understanding of unique aspects of adolescent literature and its interpretation through various historical, theoretical, or genre-based lenses. The course may be repeated for credit if taken under a different emphasis. Prerequisite(s): ENGL 1301.

ENGL 3309. Tech Writing & Document Design. 3 Credit Hours.

(WI) The process of developing technical information, including researching, drafting, editing, revising, and designing technical reports, proposals, manuals, job application documents and professional correspondence for specific audiences, using word processing and graphic applications. Prerequisite(s): ENGL 1301.

ENGL 3310. Technical Writing & Editing. 3 Credit Hours.

(WI) Study of advanced technical communication situations such as formal reports, grant proposals, and professional articles, and extensive discipline-specific professional-level practice in these forms. Study of general editorial techniques in formats, graphics, and layout and design methods in technical publications. Prerequisite(s): ENGL 1301.

ENGL 3312. Graphics & Technical Writing. 3 Credit Hours.

This course examines the integration of graphic components in printed and electronic mediums. Students use computer applications to compose and design graphics such as bar graphs, organizational charts, flow charts, diagrams, and drawings. Prerequisite(s): ENGL 1301.

ENGL 3320. Advanced Grammars. 3 Credit Hours.

An introduction to the grammatical structure of modern English at the level of word, clause, and discourse presented through the application of the principles of descriptive grammars accompanied by a review of current prescriptive grammars. Prerequisite(s): ENGL 1301.

ENGL 3330. Advanced Composition. 3 Credit Hours.

(WI) Advanced Composition enhances students' proficiency in critical reading and thinking, rhetorical concepts/awareness, the writing process, academic argument, scholarly research, and productive revision practices. Through intensive writing workshops and critical engagement with a variety of interdisciplinary texts, students hone their writing abilities to meet the demands and expectations for different writing contexts with a particular focus on writing for academic audiences. Prerequisite(s): ENGL 1301.

ENGL 3335. Film Studies. 3 Credit Hours.

(WI) A study of movies as dramas involving narrative plot, characterizations, theme, etc. and as artistic productions involving shots, cuts, and other film techniques. Prerequisite(s): ENGL 1301.

ENGL 3339. Literature & Film. 3 Credit Hours.

This course introduces students to the relationship between literature and film and the practice of cinematic adaptation. Prerequisite(s): ENGL 1301.

ENGL 3343. Creative Writing. 3 Credit Hours.

Focuses on the craft and art of creative expression within one genre or a set of related genres. Attention to the conception, design, and execution of the whole work and of elements of figurative language, characterization, dialogue, point of view, and poetic structure, as well as other elements of the craft. Prerequisite(s): ENGL 1301.

ENGL 3350. Children's Literature. 3 Credit Hours.

Study of literature written for children. Readings may include both classic and contemporary selections with thematic-, period-, or genre-based contexts. Study is concerned with increasing student understanding of the development of criteria for the selection and evaluation of children's books as a genre of study, as well as with the interpretation of literature for children through various historical, theoretical, or genre-based lenses. The course may be repeated for credit if taken under a different emphasis. Prerequisite(s): ENGL 1301.

ENGL 3356. Literary Authors. 3 Credit Hours.

An in-depth study of a single author or a single group of closely related authors. Topics vary and the course can be repeated for credit if taken under a different emphasis. Prerequisite(s): ENGL 1301.

ENGL 3357. Literary Themes. 3 Credit Hours.

An in-depth study of one major theme in literary history. Topics vary and the course can be repeated for credit if taken under a different emphasis. Prerequisite(s): ENGL 1301.

ENGL 3358. Literary Period. 3 Credit Hours.

An in-depth study of one major literary period in literary history. Topics vary and the course can be repeated for credit if taken under a different emphasis. Prerequisite(s): ENGL 1301.

ENGL 3359. Literary Genres. 3 Credit Hours.

An in-depth study of one major literary genre. Topics will vary and the course can be repeated for credit if taken under different emphasis. Prerequisite(s): ENGL 1301.

ENGL 3370. Introduction to Linguistics. 3 Credit Hours.

A study of descriptive linguistics revealing the nature and scope of the characteristics and complexities of human language. Much of the course consists of learning the phonology, morphology, syntax, semantics, and pragmatics of modern English. Attention also focuses on the nature and diversity of the rule-bound creativity underlying the tacit systematic use of human language. Prerequisite(s): ENGL 1301.

ENGL 3372. Sociolinguistics. 3 Credit Hours.

Study of the relationship of language and society as shown in the following areas: language change, language variation and social class, pidgin and Creole languages, and language policy and planning. Prerequisite(s): ENGL 1301.

ENGL 3374. Psycholinguistics. 3 Credit Hours.

Deals with a variety of formal cognitive mechanisms that are relevant to the knowledge and use of natural languages. Prerequisite(s): ENGL 1301.

ENGL 3376. Discourse Analysis. 3 Credit Hours.

Investigates the structure of spoken communication from a linguistic perspective to enable students to understand narrative and conversation. Students study the principles of pragmatic theory, speech act theory and critical discourse analysis. Prerequisite(s): ENGL 1301.

ENGL 4300. Shakespeare. 3 Credit Hours.

An in depth study of representative types of Shakespeare's drama and poetry. Prerequisite(s): ENGL 1301.

ENGL 4310. Rhetoric in Democracy. 3 Credit Hours.

(WI) This course actively involves students in applying rhetorical theories in order to create various texts as part of a rhetorical campaign for a community partner to encourage voting (or other forms of civic participation). Prerequisite(s): ENGL 1301.

ENGL 4311. History of Rhetoric. 3 Credit Hours.

This course investigates the history of rhetoric from the origin of rhetorical studies in classical Greece and Rome through contemporary discussions of rhetoric in the digital age. Prerequisite(s): ENGL 1301.

ENGL 4312. Rhetorical Criticism. 3 Credit Hours.

This course introduces students to rhetorical criticism. Through a survey approach, students will be introduced to a wide range of analytical tools and strategies to effectively describe, analyze, and interpret a wide range of discourse. Prerequisite(s): ENGL 1301.

ENGL 4313. Visual Rhetoric. 3 Credit Hours.

(WI) This class teaches students how to analyze images through various methodological frameworks as well as use images in compositions for rhetorical purposes. Prerequisite(s): ENGL 1301.

ENGL 4314. Multicultural Rhetorics. 3 Credit Hours.

(WI) This course introduces students to multicultural rhetorics. Students will read texts examining the theory/practice of Asian, African, Latino/a, and African American Rhetorics. Special attention will be given to traditionally underrepresented voices in the rhetorical tradition. Prerequisite(s): ENGL 1301.

ENGL 4315. Digital Rhetoric. 3 Credit Hours.

(WI) This course explores the impact of the Digital Age on rhetorical theory and practice by having students analyze and create rhetorical texts in digital environments. Prerequisite(s): ENGL 1301.

ENGL 4320. Writing for Electronic Media. 3 Credit Hours.

The advanced study of and practice in writing for electronic mediums with a primary focus on planning, designing, and composing professional pages for the World Wide Web. Prerequisite(s): ENGL 1301.

ENGL 4330. Grant & Proposal Writing. 3 Credit Hours.

This course offers advances practice in analyzing and writing proposals for businesses, governmental agencies, and/or private foundations. Prerequisite(s): ENGL 1301.

ENGL 4336. Film History. 3 Credit Hours.

This course examines the historical development of film as an industry and major modern art form. Attention given to important movements, periods, and nationalities. Prerequisite(s): ENGL 1301.

ENGL 4337. Film Auteurs. 3 Credit Hours.

This course examines the work of one or more film director. Attention given to critical analysis of representative films and comprehension of critical literature. Prerequisite(s): ENGL 1301.

ENGL 4338. Film Genres. 3 Credit Hours.

This course examines genre as a means of production and reception. Attention given to the recurring characters, actions, and values in films and the cultural role of these stories. Prerequisite(s): ENGL 1301.

ENGL 4339. Film Theory & Criticism. 3 Credit Hours.

This course examines the theoretical and critical approaches common to film. Attention given to the major approaches to understanding film from the spectator's side of the camera. Prerequisite(s): ENGL 1301.

ENGL 4360. Adv Studies in Secondary Engl. 3 Credit Hours.

This course applies the standards of the National Council of Teachers of English to the curriculum of secondary English. It provides an intensive review of composition principles, language conventions, literary genres, and computer instructional technology. Prerequisite(s): ENGL 1301.

ENGL 4376. Language and Gender. 3 Credit Hours.

This course explores the relationship between language and gender, including the ways that language interacts with beliefs about gender and how it participates in gender identity. Includes engagement with prominent scholarship on language and gender with attention to relevant theory and approaches to research. Prerequisite(s): ENGL 1301.

ENGL 4378. History of the English Language. 3 Credit Hours.

Diachronic study of the English language with focus on the Old English, Middle English, and Modern English periods. Topics include phonological, morphological, syntactic, and lexical change in English along with the cultural and historical events and contact situations, which accompany language development. Prerequisite(s): ENGL 1301.

ENGL 4388. English Problems. 1-3 Credit Hours.

A course featuring independent reading, research, and discussion under personal direction of instructor, topics to vary according to student need. Open to students of Senior classification with permission of department chair. Prerequisite(s): ENGL 1301.

ENGL 4390. Writing Center Pedagogy. 3 Credit Hours.

This class introduces students to the theory, research, and practices of tutoring writing by engaging them with the prominent scholarship on writing centers while providing practical experience through observations, co-tutoring, and live tutoring hours in the University Writing Center. Prerequisite(s): ENGL 1301.

ENGL 5090. English Comprehensive Exam. 0 Credit Hours.

Comprehensive Examination for non-thesis students in the field of English. The Comprehensive Examination should be completed during the final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis students do not take this examination.

ENGL 5300. Shakespeare. 3 Credit Hours.

A close study of Shakespeare's literature and language focusing on selected plays and/or poetry.

ENGL 5305. Critical Theory. 3 Credit Hours.

Focuses on the development and application of critical theory in the field of English studies. The purpose of this course is to trace one or more specific theoretical conversations such as Marxism, feminist theory, queer theory, postcolonial theory, critical race studies, disability studies, among others. This includes study of the seminal texts and theorists in the theory of study. May be repeated for credit when topics vary. Prerequisite(s): None.

ENGL 5310. Studies in American Literature. 3 Credit Hours.

Focuses on restricted periods in American literary history. Examples include colonial American literature, the American Renaissance, American literary naturalism, post-World War II American literature, and minority literature in America. May be repeated for credit when topics vary.

ENGL 5320. Studies in English Language. 3 Credit Hours.

Focuses on historical and/or linguistic study of the English language. Topics will vary. Examples include history of the English language and the English language in America. May be repeated for credit when topics vary.

ENGL 5321. Psycholinguistics. 3 Credit Hours.

Deals with a variety of formal cognitive mechanisms that are relevant to the knowledge and use of natural languages. Primary emphasis is on the modular view of the mind and its consequences for both L1 and L2 language acquisition.

ENGL 5330. Studies in Rhetoric. 3 Credit Hours.

A study of written language theories. Course contents include readings from a wide spectrum including classical Greece and Rome, the European enlightenment, nineteenth century America, and modern and post-modern periods. May be repeated for credit when topics vary.

ENGL 5332. Visual Rhetoric. 3 Credit Hours.

This class offers students the opportunity to engage with the scholarship and theory of visual rhetoric while learning how to analyze and use images rhetorically through various methodological frameworks.

ENGL 5340. Studies in Modern Fiction. 3 Credit Hours.

An evaluation of English and American short stories, novels, and related criticism. Topics will vary and will include study of themes and development of the genre. May be repeated for credit when topics vary.

ENGL 5342. Adaptation. 3 Credit Hours.

This course introduces students to the concept of adaptation and to one account for how this concept has evolved. The focus is, admittedly, more on the notion of adaptation as a way to engage a text critically than it is on specific adaptations. All assignments, even those that ask students to evaluate a particular adaptation, should reflect this conceptual focus.

ENGL 5350. Studies in Lit before 1500. 3 Credit Hours.

A study of representative types of pre-1500 literature in English. Topics may vary. May be repeated for credit when topics vary.

ENGL 5352. Chaucer. 3 Credit Hours.

An in-depth study of the language and literature of Geoffrey Chaucer, including his minor poetry and dream visions, *Troilus and Criseyde*, and the *Canterbury Tales*.

ENGL 5360. Modern American & Brit Poetry. 3 Credit Hours.

A study of representative themes in the development of American and English poetry. Related critical readings will be studied. Topics will vary. May be repeated for credit when topics vary.

ENGL 5370. Studies in Comparative Lit. 3 Credit Hours.

A comparative study of great literature in the world in translation. Topics may vary and may include examination of theme, technique, and type. May be repeated for credit when topics vary.

ENGL 5372. English Seminar. 1-3 Credit Hours.**ENGL 5374. Research & Analysis in English Studies. 3 Credit Hours.**

An introduction to research in English studies and effective utilization of library resources. May include analytical bibliography, enumerative bibliography, and textual criticism.

ENGL 5380. Composition Theory and Practice. 3 Credit Hours.

This course introduces students to prominent contemporary composition pedagogies along with best practices in the field. Students engage with the history, theory, and practice of teaching composition in higher education in order to develop their pedagogical practices and form their own philosophy of teaching writing.

ENGL 5382. Composition Assessment. 3 Credit Hours.

This class introduces students to the scholarship, theory, and methods for assessing writing with a particular focus on assessment theory and history (especially non-psychometric understandings of validity and reliability) and classroom assessment (e.g. grading and response) with some discussion of large-scale assessments (e.g. program assessment, placement, standardized testing, etc.).

ENGL 5384. English Internship. 3 Credit Hours.

Supervised professional activities in the college composition classroom including presentations, evaluation, and conferences. May be repeated once for credit. Field experience fee \$75.

ENGL 5385. Writing Center Theory and Administration. 3 Credit Hours.

This class investigates the work of writing center directors on both a theoretical and pragmatic level. Students in this course become acquainted with both the theories and practices that underlie and drive this valuable intellectual work, including pedagogical philosophies, tutor training, faculty outreach, assessment, reporting, budgeting, etc. Through challenging readings, in-depth conversations, hands-on experience, and extensive long-term projects, students are prepared for future careers in writing center administration.

ENGL 5386. Computer Mediated Composition. 3 Credit Hours.

Explores notions of 21st century writing, paying particular attention to digital and multimodal composition; particular attention is given to teaching these text-types.

ENGL 5387. Studies in Literacy. 3 Credit Hours.

Examines the evolution of literacy and the expectations of literate students; approaches for conducting research in literacy studies is also addressed.

ENGL 5388. Special Problems. 1-3 Credit Hours.

Conference course. Directed independent study under supervision of a senior faculty member.

ENGL 5389. Special Topics. 3 Credit Hours.

Focused readings, discussion, and research in language studies, literary studies, and/or visual studies. May be repeated for credit when topics vary.

ENGL 5398. Thesis. 1-6 Credit Hours.

Scheduled when student is ready to begin thesis. No credit until thesis is accepted. Prerequisite(s): ENGL 5374, 24 hours of graduate credit and permission of department chair.

Exercise Physiology (EPHP)

EPHP 3301. Exercise Physiology I. 3 Credit Hours.

The purpose of this course is to increase the student's knowledge and understanding of the physiological adaptations that occur during exercise. Emphasis will be applied to the cardiovascular, respiratory, and digestive systems. Materials fee \$40. Prerequisite(s): BIOL 2401, BIOL 2402 or 3.5 GPA.

EPHP 3302. Exercise Physiology II. 3 Credit Hours.

The purpose of this course is to further increase the student's knowledge and understanding of the physiological adaptations that occur during exercise. Emphasis will be applied to the nervous, muscular, skeletal, and endocrine systems. Materials fee \$40. Prerequisite(s): EPHP 3301.

EPHP 3303. Anatomical Kinesiology. 3 Credit Hours.

The purpose of this course is to study the application of basic mechanics of human motion to physical education activities. Includes a study of gross anatomy with application of the anatomical and mechanical principles involved in human movement. Prerequisites: BIOL 2401, BIOL 2402 or 3.5 GPA.

EPHP 3304. Exercise Biochemistry. 3 Credit Hours.

This course provides an overview of the biochemistry and metabolism related to exercise, training adaptations, and nutrition. Prerequisite(s): CHEM 1411.

EPHP 3305. Principles and Techniques of Strength Training and Conditioning. 3 Credit Hours.

This course provides an overview of the principles of program design. Methods of resistance training and assessment are emphasized in laboratory demonstrations. Prerequisite(s): EPHP 3301.

EPHP 3306. Exercise Testing and Prescription. 3 Credit Hours.

The purpose of this course is to teach students how to use relevant fitness testing equipment and prescribe appropriate exercise program based on fitness evaluations. Students will learn the guidelines and protocols for safe and effective exercise testing for normal and special populations. Prerequisite(s): EPHP 3301.

EPHP 3307. Principles of Personal Training. 3 Credit Hours.

This course will provide the scientific foundation and practical skills necessary to prepare students for the personal training field and the American College of Sports Medicine's (ACSM) personal training certification exam.

EPHP 4101. Advanced Resistance Training. 1 Credit Hour.

This course provides an opportunity for students to develop an increased understanding and appreciation for the principles of resistance training through direct participation in this style of training. Prerequisite: EPHP 3302.

EPHP 4102. Advanced Cardiovascular Training. 1 Credit Hour.

This course provides an opportunity for students to develop an increased understanding and appreciation for the principles of cardiovascular training through direct participation in this style of training. Prerequisite(s): EPHP 3301.

EPHP 4301. Leadership in Exercise and Sport. 3 Credit Hours.

(WI)The purpose of this course is to provide a general overview of leadership dynamics and their application to exercise and sports settings.

EPHP 4302. Sports Nutrition. 3 Credit Hours.

This course provides an overview of the role of nutrition as a means to enhance health and performance in exercise and sport. Topics to be covered include principles of healthful nutrition, energy metabolism, the role of vitamins and minerals, ergogenic aids, and weight management. Prerequisite: EPHP 3304.

EPHP 4304. Principles of Strength and Muscular Hypertrophy. 3 Credit Hours.

This course provides an opportunity for students to develop an increased understanding for the mechanisms of muscular hypertrophy and the principles of resistance training. Prerequisite(s): EPHP 3301.

EPHP 4305. Research Methods. 3 Credit Hours.

This course will introduce students to research methodologies, data analysis techniques, and research evaluation for fields related to Exercise Physiology and other Health Sciences.

EPHP 4395. Exercise Physiology and Human Performance Capstone. 3 Credit Hours.

(WI)This course serves as a capstone seminar in which students will demonstrate expertise in a selected area of exercise and sport science. Prerequisite(s): EPHP 3301, 3302, 3303, 3304, 3305, 3306, and 4305.

EPHP 4684. Exercise Physiology and Human Performance Internship. 6 Credit Hours.

The internship provides hands-on experience for the human performance major in the area of his or her concentration. A minimum of 250 hours on-site is required. The experience includes a special project determined jointly by the student and the agency intern supervisor. Prerequisites: EPHP 3301, 3302, 3303, 3304, 3305, 3306.

Finance (FIN)

FIN 3300. Introduction to Financial Planning. 3 Credit Hours.

Analyze personal financial decisions, including basic financial planning, tax issues, managing savings and deposit accounts, buying real assets, the use of credit, insurance management investments and saving for retirement.

FIN 3301. Financial Management I. 3 Credit Hours.

Analyze financial decision-making at the corporate level with emphasis on the maximization of stockholder wealth. Learn financial statement analysis, the valuation of stocks and bonds, cost of capital, capital budgeting, dividend policy, leverage and capital structure, methods of firm valuation, working capital management, mergers and acquisitions, and bankruptcy. Prerequisite(s): ACCT 2302 or ACCT 2402 and ECON 2301.

FIN 3302. Financial Institutions. 3 Credit Hours.

This course explores the critical roles and operations of financial institutions, including commercial banks, investment banks, mutual funds, venture capital, and private equity firms. Students will analyze the organizational structures, functions, and regulatory frameworks that govern these institutions. Emphasis is placed on understanding fund sourcing, allocation strategies, and the financial risks faced by institutions, such as credit, liquidity, and market risks. The course prepares students for careers in finance, banking, and related fields by providing a comprehensive understanding of the financial system's inner workings. Prerequisite(s): ECON 2301.

FIN 3303. Money and Banking. 3 Credit Hours.

Study the structure and functions of financial markets and financial intermediaries, the behavior and pattern of interest rates, the basic concepts of commercial bank management, the nature of money and the role of the Federal Reserve in its creation, the basic structure of the economy and the impact of monetary actions on this structure. Credit for both FIN 3303 and ECON 3303 will not be awarded. Prerequisite(s): ECON 2301.

FIN 3304. Economics in Financial Markets. 3 Credit Hours.

Study the aggregate financial system and capital markets and the impact these have on financial intermediaries. Special emphasis on flow of funds analysis, interest rate theory, role of financial intermediaries, and management of financial assets. Credit for both FIN 3304 and ECON 3305 will not be awarded. Prerequisite(s): FIN 3301.

FIN 3309. Global Financial History. 3 Credit Hours.

Study different financial crises in history. Explore global and long-term overviews of socio-economic factors that influence the development of financial instruments, institutions, markets and entrepreneurs.

FIN 3387. Cooperative Education. 1-3 Credit Hours.

Integrate academic study with work experience that is relevant to a major or minor. Two-semester minimum requirement that may be accomplished by 1) alternating semesters of full-time study with semesters of curriculum-related employment, or 2) enrolling in courses at least half-time (6 semester hours) and working part-time in parallel positions of curriculum-related employment. Cooperative Education advisor will supervise the student's and assign the final grades. Students may participate in the Cooperative Education but will earn only a maximum of 6 hours credit toward a degree. Prerequisite(s): Completion of 30 semester hours which includes 12 hours in the major or minor discipline in which the Cooperative Education course is desired, minimum overall GPA of 2.5 and a minimum GPA of 3.0 in the appropriate major or minor field, and permission of department chair. Field experience fee \$75.

FIN 4300. Advanced Financial Management. 3 Credit Hours.

Explore advanced financial management principles with a focus on maximizing shareholder wealth. Analyze financial statements, evaluate cash flows, and delve into securities valuation, cost of capital, capital budgeting, and more. Equip yourself with the skills to excel in corporate finance and strategic financial decision-making. Prerequisite(s): FIN 3301.

FIN 4301. International Financial Management. 3 Credit Hours.

Explore strategies for global investment financing, excel in asset management across diverse financial landscapes, and tackle complex challenges in multinational corporation financial management. Gain expertise in investment decision-making, cost of capital analysis, financial structure optimization, and effective financial control for subsidiaries in a global context. Elevate your global finance skills and advance your career with this dynamic course. Prerequisite(s): FIN 3301 or permission of department chair.

FIN 4302. Real Estate Finance. 3 Credit Hours.

Study monetary systems, primary and secondary money markets, sources of mortgage loans, federal government programs, loan applications, processes and procedures, closing costs, alternative financial instruments, equal credit opportunity acts, community reinvestment act, and state housing agency. Prerequisite(s): Permission of department chair.

FIN 4303. Case Studies in Finance. 3 Credit Hours.

(WI) This course applies foundational principles from corporate finance, accounting, investments, international finance, and economics to real-world financial challenges. Students will analyze diverse financial scenarios and case studies in areas such as corporate finance, investments, and international finance, with a strong focus on valuation techniques, risk management, and decision-making. Through collaborative problem-solving and case analysis, students will develop advanced analytical skills that prepare them to excel in an evolving financial landscape. Prerequisite(s): FIN 3301.

FIN 4304. Investments. 3 Credit Hours.

Explore the intricacies of investment policy formulation, assess the nuances of investment risk, conduct in-depth comparisons of various investment vehicles, and meticulously examine security markets and their operational dynamics. Discover the foundations of prudent investment strategies, equipping yourself with the knowledge and skills to excel in the world of finance and investment. Prerequisite(s): FIN 3301. BUSI 3311 or equivalent.

FIN 4305. Federal Tax Accounting I. 3 Credit Hours.

Explore the present income tax law and regulations, income tax legislation, treasury and court decisions, departmental ruling, income tax problems and returns, social security and self-employment taxes. Prerequisite(s): ACCT 2302 or ACCT 2402 and Junior classification. Credit for both ACCT 4305 and FIN 4305 will not be awarded.

FIN 4306. Federal Tax Accounting II. 3 Credit Hours.

Study current income tax law and tax accounting procedures. Preparation of income tax returns of partnerships and corporations. Prerequisite(s): FIN 4305 or permission of School Director. Credit for both ACCT 4306 and FIN 4306 will not be awarded.

FIN 4307. Analysis of Fin Statements. 3 Credit Hours.

Explore the analysis of corporate financial statements to assess firm performance and valuations. Gain the skills to interpret financial data, evaluate performance and risk, and utilize this information to support decision-making for a range of stakeholders, including creditors, investors, managers, consultants, auditors, directors, regulators, and employees. Enhance your ability to make informed and impactful business decisions through comprehensive financial statement analysis. Prerequisite(s): FIN 3301.

FIN 4308. Risk Management. 3 Credit Hours.

Analyze processing, investing, and evaluation of risk management. Examine risk management process and its application in commercial, personal, and public risk. Explore various types of insurance products, the process by which insurance is sold, and how individuals and organizations manage risk via insurance products. Prerequisite(s): FIN 3301 or permission of department chair.

FIN 4310. Managerial Economics. 3 Credit Hours.

Study economic theory and methodology in business and administrative decision-making. Explore economic analysis and its use in formulating business policies. Analyze concepts of profits, production and cost functions, demand theory, competitive pricing policies, and business criteria for investment output and marketing decisions. Credit for both FIN 4310 and ECON 4310 will not be awarded. Prerequisite(s): FIN 3301.

FIN 4311. FinTech. 3 Credit Hours.

This course explores transformative innovations in FinTech, including Artificial Intelligence (AI), Blockchain, Cryptocurrency, Crowdfunding, and Data Analytics. Students will study the impact of these technological advances on financial institutions and markets, delving into topics such as AI-driven financial services, the role of blockchain in secure transactions, and the applications of data analytics in improving decision-making processes. The course will cover developments in areas like lending, valuation, payments, capital raising, smart contracts, and machine learning, offering insights into how technology is reshaping the financial landscape. Prerequisite(s): FIN 3301.

FIN 4377. Advanced Financial Planning. 3 Credit Hours.

This course delves into the practical application of financial planning tools and processes. It encompasses a thorough examination of financial statements, dynamic presentations, intricate case analysis, and the cultivation of professional fiduciary behavior. Prerequisite(s): Students pursuing the Financial Planning micro-credential must make a grade of "C" or higher in each of the required courses. Please contact your academic advisor or Finance faculty member for additional information.

FIN 4384. Financial Internship. 1-6 Credit Hours.

Participate in a finance related position for work experience with a public or private organizations that is preapproved and supervised. May be repeated for a total of 6 credit hours. Prerequisite(s): FIN 3301 and permission of department chair.

FIN 4388. Financial Problems. 1-3 Credit Hours.

Study of selected problems in finance. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. May be repeated with permission department chair. Prerequisite(s): Permission of department chair.

FIN 4389. Selected Topics in Finance. 3 Credit Hours.

Examine current issues and topics in finance. Study readings from current finance publications and other related periodicals. Activities may include directed study, participation in professional organizations, research and presentations, job market analysis, preparation and sitting for professional certification exams. May be repeatable for credit if the topic varies. Prerequisite(s): 12 semester hours of FIN and permission of department chair.

FIN 5301. International Fin Strategy. 3 Credit Hours.

Examine the major international issues pertaining to finance, including choosing and implementing an appropriate corporate strategy, the determination of exchange rates, international risk management, transfer pricing, and evaluating and financing international investment opportunities.

FIN 5303. Bank Management. 3 Credit Hours.

Study bank management and bank regulation. Examine the operations and management policies of depository institutions, the conditions that have led to bank regulation and deregulation, the risk structure of credit for commercial and consumer clients, and capital management issues for a bank.

FIN 5304. Investments. 3 Credit Hours.

Explore the development of investment policy, the character of investment risk, a comparison of investment media, description and analysis of security markets and their operations. Prerequisite(s): FIN 3301 or equivalent.

FIN 5305. Corporate Finance Case Studies. 3 Credit Hours.

Incorporate case studies and financial analysis to make financial management decisions. Analyze selected cases and prepare solutions. Discuss solutions in class and prepare proposals. Students will be required to use prior knowledge, current research, and analytical ability in preparing their proposals. Prerequisite(s): Graduate standing.

FIN 5306. Markets and Institutions. 3 Credit Hours.

Explore the operation, mechanics, and structure of the financial system within the United States, emphasizing its institutions, markets, instruments, and monetary policy of the Federal Reserve and its impact upon financial institutions.

FIN 5307. Financial Management. 3 Credit Hours.

Study financial decision making in the modern corporation. Explore capital budgeting, capital structure, corporate sources of funding, dividend policy, financial risk management, standard theories of risk and return, and valuation of assets. Prerequisite(s): FIN 3301 or equivalent.

FIN 5308. Managerial Economics. 3 Credit Hours.

Analyze economic theory and methodology in business and administrative decision-making. Study the tools of economic analysis and their use in formulating business policies. Explore concepts of profits, production and cost functions, demand theory, competitive pricing policies, and business criteria for investment output and marketing decisions. Credit for both FIN 5308 and ECON 5308 will not be awarded.

FIN 5309. Global History of Finance. 3 Credit Hours.

Study the history of money to develop a unified framework for understanding the economic events, public policy, and financial innovation that characterize different geographical settings over time.

FIN 5310. Risk Management. 3 Credit Hours.

Explore the theory and practice of private insurance and its economic and social significance. Analyze life, health, automotive, homeowners, and liability insurance. Study various forms of risk management, characteristics of insurance contracts, government regulatory characteristics, and institutional structures are studied. Prerequisite(s): none.

FIN 5360. Finance Theory. 3 Credit Hours.

Study selected theoretical models used in finance. Explore the seminal theories that make up modern finance and form the basis for current research. Prerequisite(s): FIN 5307.

FIN 5370. Consumer Finance Seminar. 3 Credit Hours.

Explore consumer and business finance topics. Analyze debt management, initial public offering of a new business, Internet based finance and regulatory aspects, and management of compensation. Credit for both FIN 5370 and HRM 5326 will not be awarded.

FIN 5388. Financial Problems. 1-3 Credit Hours.

This course offers students the opportunity to become acquainted with current research being conducted within the student's area of interest.; directed reading of a number of sources selected in concert by the student's professor. Prerequisite(s): Permission of instructor.

FIN 5389. Selected Topics in Finance. 3 Credit Hours.

Examine selected topics in finance. Special emphasis on investments, corporate financial management, and financial markets and institutions. This course may be repeated for credit as the topic changes. Prerequisite(s): Graduate standing and FIN 3301 or FIN 5307 or permission of instructor.

Fine Arts (F A)

F A 3347. Music History to 1750. 3 Credit Hours.

(WI) Explore the history of western music, beginning with the earliest musical instruments ever found, proceeding through ancient Mesopotamia, ancient Greece and Rome, and continuing through the Medieval, Renaissance, and Baroque periods of European music. Special emphasis on theoretical structure, social and historical context, interaction with other art forms, instrumentation, and others.

F A 3349. Music History from 1750. 3 Credit Hours.

(WI) Explore the history of western music, continuing the Baroque period, and proceeding through the Classical, Romantic, and twentieth century periods. Special emphasis on theoretical structure, social and historical context, interaction with other art forms, and instrumentation.

F A 3350. World Music. 3 Credit Hours.

Introduces ethnomusicology and a cross cultural study of music. Explore music and performance from around the world, and their impact on the political, social, religious, artistic, and economic spheres. This course is appropriate for any student of any musical background. Formal training in music is not required, and you do not have to know how to read music notation.

F A 4301. The Arts in Contemporary Society. 3 Credit Hours.

(WI) Explore an interdisciplinary approach to the relationships of art, music, and theatre in contemporary society.

F A 4311. The Protest Song in America. 3 Credit Hours.

(WI) This course explores the connection between songs and social/political movements in the United States from the founding of the nation to the present era with special emphasis on analyzing lyrics as poetic expressions in the great American song tradition.

F A 4312. The Blues. 3 Credit Hours.

(WI) Explore the origins, evolution, and influence of the blues as both a musical and literary art form through its impact on American culture and society with special emphasis on analyzing blues lyrics as poetic expressions in the great American song tradition.

F A 4321. The Artist on Film. 3 Credit Hours.

(WI) Explore a variety of films and texts on various artists in order to debate and define the stereotypes placed upon artists. Analyze the ways in which the films either clarify or distort the artist's biography, work, and legacy.

F A 4330. Fine Arts Seminar. 1-3 Credit Hours.

Explore current topics and issues in fine arts. Topics will vary. May be repeated twice for credit as topics vary.

F A 4388. Fine Arts Problems. 1-3 Credit Hours.

Independent reading, research, and discussion under personal direction of instructor. Topics vary according to student need. Prerequisite(s): Permission of department chair.

French (FREN)

FREN 3600. Advanced Grammar and Culture. 3 Credit Hours.

This course is designed to allow students to study of intersections of language and culture in French-speaking countries with emphasis on continued development of speaking, writing, and reading skills. Prerequisite(s): 6 hours of French language at the beginning level.

Geography (GEOG)

GEOG 3303. Geographic Techniques. 3 Credit Hours.

Examine the three main techniques in geographic analysis: computer cartography, spatial statistics, and geographic information systems (GIS). Learn basic principles and techniques of producing maps, basic spatial statistics, and the use of GIS as a tool to gather, store, manipulate, and analyze various spatial databases. Prerequisite(s): GEOG 1303 or permission of instructor.

GEOG 4305. Geography Seminar. 3 Credit Hours.

Examine major issues within modern geography. May be repeated for credit when topics vary. Prerequisite(s): GEOG 1303 or permission of instructor.

Health (HLTH)

HLTH 3351. Principles of Health and Fitness for Children. 3 Credit Hours.

Study health and physical education as they relate to children ages 6-14. Emphasis on skills related to personal health and safety, physical fitness, motor development, games and sports, gymnastics, and rhythmic activities. Prerequisite(s): Junior classification or permission of department chair.

Health Administration (HEAD)

HEAD 5311. Foundations of Healthcare Administration and Healthcare Systems. 3 Credit Hours.

This course examines the role of the contemporary healthcare manager/leader with emphasis on identifying basic managerial and leadership skills and knowledge that contributes to effective healthcare administration. Provides a systematic overview of the structures and organizations in US healthcare delivery systems with emphasis on interactions of governmental policy, authorities, delivery systems, financing of health care, regulation, competition, organizational innovations in healthcare services and alternate delivery strategies. Also examines stakeholder interests. Course materials focus on contemporary knowledge, skills and real-world applications for management of diverse healthcare organizations.

HEAD 5312. Strategic Planning and Financial Management in Healthcare Organizations. 3 Credit Hours.

This course integrates key aspects of strategic planning and financial management in healthcare organizations. Students will examine strategic planning techniques, concepts, and practices, as well as leadership responsibilities regarding the creation of mission, vision, goals, and objective statements for healthcare providers. Students will be introduced to the core concepts and practices of financial management in healthcare, including the interpretation of financial reports, financial ratio analysis, cost and profit analysis, planning, and budgeting. The overarching goal of this course is to provide a comprehensive review of population health approaches, strategies, and programs designed to simultaneously improve consumers' access to and quality of care while managing costs.

HEAD 5313. Healthcare Policy, Law, and Ethics. 3 Credit Hours.

This course examines selected legal, ethical, and regulatory principles and policies undergirding the American system of healthcare. The course will include the study and discussion of common law principles of liability, federal and state legislation impacting the practice of medicine, nursing, and other health professions, as well as the impact of state and federal law on the operation of health insurance plans, HMO's health clinics, and hospitals. Other topics will include patient consent, privacy, confidentiality, torts, contract law, corporate liability, malpractice, antitrust, fraud and abuse, and key federal regulations. The overarching emphasis in this course will be examining the principles needed to analyze problems and decision scenarios that may confront the CEO, CFO, or administrator working in a private or public role within a healthcare institution, managed care plan, or public agency.

HEAD 5314. Health Informatics and Data Analytics. 3 Credit Hours.

This course provides an overview of the use of information technology and data analytics as they apply to healthcare, including the basic structure and function of computers, information retrieval, electronic health records, physician order entry, telemedicine, consumer health informatics, security, privacy, and confidentiality in the electronic environment, HIPAA regulations, ethics, computerized medical imaging, decision support, and the use of data analytics in healthcare. The course will provide the student with the fundamental knowledge necessary to practice within the modern healthcare environment and communicate with information technology (IT) personnel.

HEAD 5315. Health Ethics and Residency. 3 Credit Hours.

Learn historical, present and future ethical issues in health administration. Emphasis on decision, clinical, business, organizational and social ethics.

Higher Education Leadership (HIED)

HIED 5090. Higher Education Leadership Capstone. 0 Credit Hours.

This course emphasizes the integration, synthesis, and evaluation of major concepts encountered during program coursework. Students will be expected to articulate a personal leadership approach and demonstrate a broad-based understanding of practices and trends higher education administration. Prerequisite(s): Students must complete at least 24 hours of programmatic coursework before registering.

HIED 5300. Career & Professional Development Seminar. 3 Credit Hours.

This course provides students intentional opportunities to engage in self-reflection, workplace skill enhancement, and leadership development.

HIED 5301. History of Higher Education. 3 Credit Hours.

This course provides an overview of the history and development of American higher education. Emphasis is placed on the influence of political, economic, and social forces.

HIED 5302. Planning and Resource Management in Higher Education. 3 Credit Hours.

This course provides an overview of the economics and finance of higher education in the United States, with an emphasis on the analysis of financial policies and current issues at the national, state, and institutional levels.

HIED 5303. Higher Education Law & Ethics. 3 Credit Hours.

This course explores legal aspects and issues of constitutional, statutory, and case law and the ethical implications on professional practice and compliance. Current trends and potential ethical dilemmas of the practitioner will also be covered.

HIED 5304. Student Development and the College Environment. 3 Credit Hours.

This course provides an overview of the relationship between the college environment and student development.

HIED 5305. Principles of Assessment and Research in Higher Education. 3 Credit Hours.

This course examines assessment, evaluation, and research in higher education. Topics include purpose, methodological considerations, ethical implications, and appropriate forms of analysis. In addition, similarities and distinctions between assessment and research will be emphasized.

HIED 5306. Critical Issues in Higher Education. 3 Credit Hours.

This course is an examination of social, political, ethical, and economic issues that impact higher education.

HIED 5307. Leading Change in Higher Education. 3 Credit Hours.

This course provides a survey of organizational change and corresponding leadership dynamics in the field of higher education.

HIED 5308. Assessment and Evaluation in Higher Education. 3 Credit Hours.

This course examines various aspects of assessment and evaluation in higher education such as assessing student outcomes, reviewing program outcomes, and institutional accreditation.

HIED 5312. Organization and Administration of Higher Education. 3 Credit Hours.

This course provides an overview of organization and administration in contemporary colleges and universities. Emphasis will be placed on the theory and practices of the organization as it relates to governance, structure, and management.

HIED 5313. Principles of Management and Supervision in Higher Education. 3 Credit Hours.

This course is designed to prepare students for practice related to staff management and supervisory positions within colleges, universities, and related organizations. Areas of emphasis include evidence-based principles of supervision, staff development, and evaluation.

HIED 5384. Higher Education Internship I. 3 Credit Hours.

This course provides experiential learning opportunities for students within their area of emphasis. Students will be responsible for accruing 100 hours of contact with the internship site supervisor and/or time spent on internship major project. Prerequisite(s): HIED 5300.

HIED 5388. Higher Education Leadership Internship. 3 Credit Hours.

This course provides an experiential learning opportunity for students interested in pursuing administrative positions within institutions of higher education. Students will be responsible for accruing 100 hours of engagement with the site supervisor and major project. Prerequisite(s): 12 hours of HIED coursework.

History (HIST)

HIST 3300. Historian's Craft. 3 Credit Hours.

(WI) Introduces the study of history. Learn to think historically, understand how historians construct and write about the past, and critically evaluate historical arguments. Develop writing and research skills to interpret primary sources and master professional standards of presentation. Required for all history majors. Prerequisite(s) for upper level History courses, and must be taken during the first semester, open only to declared History majors or by consent of instructor.

HIST 3310. American Beginnings. 3 Credit Hours.

Explore the history of America from first European contact to 1763. Special emphasis on relations between Europeans and Native Americans, imperial rivalries, and the development of the English mainland colonies. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3311. Creating a Nation. 3 Credit Hours.

Explore the history of the United States from 1763 to 1815. Special emphasis on the causes and consequences of the American Revolution, the writing of the Constitution, and the triumph of liberal democracy. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3312. The Age of Jackson from 1815-1848. 3 Credit Hours.

Examine American development during the Jacksonian period with an emphasis on the expansion of social and political democracy. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3313. The Civil War and Reconstruction. 3 Credit Hours.

Explore the events leading to the Civil War and the impact of that war and Reconstruction on American development. Special emphasis on social and cultural forces as well as politics. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3315. Populism and Progressivism, 1877-1917. 3 Credit Hours.

Study American history, at the turn of the century, emphasizing the impact of industrialism and urbanism on politics and society. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3316. Military History of the United States. 3 Credit Hours.

This course will examine the role of the military throughout American History from 1607-Present. It will highlight the evolution of strategy and tactics, organizational change and civilian-military relations. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3317. American Environmental History. 3 Credit Hours.

This course will examine environmental issues in American History from 1492-Present. The course provides an overview of American Environmental history while providing a different lens to understand the nation's ecological past. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3320. Social History of the United States to 1877. 3 Credit Hours.

Examine the social, cultural, and economic development of the United States from colonial times to the end of Reconstruction. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3321. Social History of the United States from 1877. 3 Credit Hours.

Examine the social, cultural, and economic development of the United States since the end of Reconstruction. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3322. History of Texas. 3 Credit Hours.

Explore Texas history from the Spanish colonial period to the present. Concentrates on the dynamics of Hispanic heritage, the Revolution and Republic, the Civil War and Reconstruction, and the political and economic developments of the modern state. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3324. Hollywood Westerns and the American West. 3 Credit Hours.

Examine the 20th century American Western history through an examination of Western films, from the early twentieth century to the present day. Analyze mythic interpretations and historical realities of the American West to understand the role of the western in shaping perceptions of the West.

HIST 3325. United States Women's History to 1877. 3 Credit Hours.

Study the history of women in America from the colonial period through 1877, with special emphasis on women's roles in public and private life, and the historical role of women in the development of the nation.

HIST 3326. United States Women's History from 1877. 3 Credit Hours.

Study the history of women in America from 1877 through the present, with special emphasis on the emergence of modern American women during the latter part of the Nineteenth century and women's roles in the continued development of the nation.

HIST 3327. African American History to 1877. 3 Credit Hours.

Explore African American history from the colonial period to 1877, with special emphasis on the slave trade, the development of the institution of slavery, free blacks and the impact of the Civil War and Reconstruction on African Americans.

HIST 3328. African American History from 1877. 3 Credit Hours.

Explore African American history from the end of Reconstruction to the present, with special emphasis on black leaders, disenfranchisement, lynching and the quest for equality in the mid-twentieth century.

HIST 3329. Church and State. 3 Credit Hours.

Examine the relationship of church and state in United States history, and the role religion has played in American political life, culture, and society.

HIST 3332. The Renaissance and Reformation, 1300-1648. 3 Credit Hours.

Examine European political, diplomatic, and cultural history from 1300 to 1648. Special emphasis on Renaissance Humanism, the Protestant movements, the Catholic Reformation, and the emergence of the European state system during the age of religious wars. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3339. Europe in the Middle Ages. 3 Credit Hours.

Examine Medieval Europe from the decline of the ancient world to the eve of the Renaissance. Special emphasis on the political, economic and social changes underlying the formation and development of medieval civilization. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3340. Europe in the Age of Empire and Absolutism. 3 Credit Hours.

This course is a study of the European state system from the end of the Thirty Years' War to the outbreak of the French Revolution. The course will concentrate on the consolidation of absolute monarchies, the rise of colonial empires, enlightened despotism, and the proliferation of enlightenment ideas.

HIST 3341. Europe from 1814 - 1919. 3 Credit Hours.

Examine the important developments in the political, diplomatic, social, economic, and intellectual history of Europe between the Congress of Vienna and the first World War, including the Revolution of 1848, the Industrial Revolution, and European diplomatic events leading to the Great War. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3360. Asian Civilization. 3 Credit Hours.

A survey of Asian civilizations with a primary focus on the history and cultures of India, China, and Japan. Examine general trends in the political, economic, social, and intellectual history of Asia, highlighted by discussions and consideration of selected cultural elements, such as art, literature, and film.

HIST 3361. History and Film. 3 Credit Hours.

Introduces topics in history through the study of film, with supplementary reading, lectures, and discussions.

HIST 3370. Colonial Latin America. 3 Credit Hours.

Examine the exploration and colonization of the Spanish and Portuguese dominions in South and Central America, including political history of the colonies, the church and colonial institutions, commercial systems of Spain and Portugal, expansion into the North American borderlands, and early independence movements. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 3371. History of Mexico Before Independence. 3 Credit Hours.

Examine Mexican history from the arrival of the first peoples through the end of the Spanish colonial era. Special emphasis on early native civilizations, especially the Maya and Aztec, as well as the incursion of the Spanish and the conquest and colonization of Mexico.

HIST 3372. History of Mexico from 1821 - Present. 3 Credit Hours.

Examine modern Mexico, including the independence movement, conflict of centralism and federalism, war with the United States, political and economic developments under Juarez, Maximilian, and Diaz, and the social revolution of the 20th century. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4301. United States History and the World. 3 Credit Hours.

(WI) Learn how world events influenced American history from 1789 to the present. Examine American diplomatic, economic, political, and social reactions to major world occurrences. Emphasis will be on the twentieth century, particularly on the two world wars and the Cold War Era.

HIST 4302. Economic Development of the United States. 3 Credit Hours.

Survey the economic development of the United States from colonial times to the present. Credit for both HIST 4302 and ECON 4302 will not be awarded. Prerequisite(s): ECON 1301 or ECON 2301 and 6 hours of HIST.

HIST 4307. History Careers Outside the Classroom. 3 Credit Hours.

Examine the choices available for historians who seek careers outside of classroom teaching, including museums, historic preservation, cultural resource management, archival administration, parks, oral history, corporate history, and editing and publishing. Will not count as a history course for purposes of teacher certification. Prerequisite(s): 6 hours of HIST.

HIST 4310. 20th Century United States History. 3 Credit Hours.

Examine the recent history of the United States, with an emphasis on the political, social, cultural, and economic development of the nation. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4312. Topics in Women's History. 3 Credit Hours.

Explore special topics in the history of American women. May be repeated the when topic varies.

HIST 4313. Topics in African American History. 3 Credit Hours.

Develop understanding of African American history through advanced study of selected topics. May be repeated when the topic varies.

HIST 4314. History of the American West. 3 Credit Hours.

Examines the history of the Great West from the Lewis and Clark expedition to the 20th century. Special emphasis on the West as a distinctive region in national politics, state building in the 19th century, and the development of agriculture, transportation, and commerce. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4315. History of the South. 3 Credit Hours.

Surveys southern history emphasizing distinctive factors which set the region apart from the rest of the United States, including social and cultural development. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4317. Topics in Native American History. 3 Credit Hours.

Examine advanced Native American history topics. May be repeated when the topic varies.

HIST 4318. Topics in Oral History. 3 Credit Hours.

Examine advanced Oral History topics, including, instruction in the history, methodology, and analysis of oral history. May be repeated when the topic varies.

HIST 4327. History of Russia and Eastern Europe to 1917. 3 Credit Hours.

Examination of Russia and Eastern Europe from the ancient period to the 1917 Bolshevik Revolution. Topics include: the development of Kievan Rus, the Mongol invasion, the Time of Troubles, the French Revolution and Napoleon, the Crimean War, the growth of revolutionary movements, and major philosophical, cultural, religious, and political ideas. Prerequisite: 6 hours of History or permission of Department Chair.

HIST 4328. History of the Soviet Union and Post-Soviet Russia and Eastern Europe. 3 Credit Hours.

Examination of the creation and the development of the Soviet Union and Post-Soviet Europe. Major events covered include: the Bolshevik Revolution, official cultural policies, World War II, the Cold War, the fall of Communism, transition to Capitalism, resurgent nationalism, and post-Communist political movements. Prerequisites: Recommended that students take History of Russia and Eastern Europe to 1917 Required: 6 hours HIST or permission of Department Chair.

HIST 4332. England and Great Britain to 1603. 3 Credit Hours.

Explore English history from Roman Britain to the death of Queen Elizabeth and the end of the Tudor dynasty. Special emphasis on the political, legal, and religious changes which formed the foundations of modern England. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4333. England and Great Britain from 1603. 3 Credit Hours.

Explore English and British history from 1603 to modern times. Special emphasis on the constitutional, political, economic, and legal changes which shaped Great Britain, including a survey of the empire and the United Kingdom. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4335. Social History of Modern Europe. 3 Credit Hours.

An analysis of European society since the industrial revolution, with emphasis on the social impact of industrialization and urbanization, changing patterns of social stratification, mobility, and class conflict in the 19th and 20th centuries. Pre-requisite: 6 hours of HIST or permission of department chairperson.

HIST 4336. European Intellectual and Cultural History. 3 Credit Hours.

Examine the fundamental ideas in the European intellectual tradition through an analysis of primary texts. Analyze the foundations of Western thought in the Judeo-Christian and Greco-Roman traditions, as well as the ideas and ideologies that have shaped modern European mentalities. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4337. Europe from 1919 - 1945. 3 Credit Hours.

Examine the period from the Paris Peace conference in 1919 to the end of the Second World War in Europe. Special emphasis on political and economic instability, the rise of dictatorships, and European diplomatic crises leading to war.

HIST 4341. Revolutionary Europe from 1789 - 1814. 3 Credit Hours.

Examine the political, social, economic, and intellectual forces unleashed in the French Revolution and Napoleonic era, beginning with a study of the Old Regime and ending with the Congress of Vienna in 1814. Special emphasis on the rise of liberalism and nationalism in Europe. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4345. World War II and the Holocaust. 3 Credit Hours.

Examine European history between the rise of Fascism and Communism after the Great War to the end of World War II in 1945. Special emphasis on European diplomacy in the inter-war years, the conduct of the Second World War, and the Holocaust. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4364. Topics in National Histories. 3 Credit Hours.

Examine the history of a particular state or region in depth. May be repeated for credit when the topics vary. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4365. History of the World since 1919. 3 Credit Hours.

Explore major trends in world history following World War I, including the impact of the Great Depression, the rise of totalitarianism, and the coming of World War II. Special emphasis on the postwar period. Prerequisite(s): 6 hours of HIST or permission of department chair.

HIST 4380. History Seminar. 1-3 Credit Hours.

Individual instruction in selected fields of history. Emphasis on reports and wide readings in selected fields. May be taken more than once for credit. Prerequisite(s): Senior standing or permission of department chair.

HIST 4381. Concepts of History Education. 3 Credit Hours.

Considers the methods and techniques for presenting historical material to secondary students. Learn to organize material into a logical framework to better present the interplay of people, nations, and cultures through time. Focuses on mastery of subject areas of the Texas Examination for Educator Standards for teacher certification.

HIST 4382. Historical Method. 3 Credit Hours.

(WI) Examine the concepts basic to historical thinking, causation, periodization, change, and continuity, the roles of social forces and individuals, and problems of interpretation, accuracy, and truth. Compare the social sciences and the humanities with an emphasis on the distinctive nature of the historical discipline as it has developed through time. Prerequisite(s): HIST 3300.

HIST 4388. History Problems. 1-6 Credit Hours.

Independent reading, research and discussion. Entry into this course will be arranged with the history counselor.

HIST 4389. Special Topics in History. 3 Credit Hours.

Examine important periods, regions, and themes in history. May be repeated when the topic varies.

HIST 4391. History Practicum. 3 Credit Hours.

Gain professional experience in the workplaces where historians find professional careers including museums, historic preservation, cultural resource management, archival administration, teaching, parks, oral history, corporate history, and editing and publishing. Will count as an elective but not for teacher certification or completion of the history major. Prerequisite(s): HIST 4307. May be repeated once for credit. Field experience fee \$75.

HIST 4395. History Senior Research Seminar. 3 Credit Hours.

(WI) Develop and apply historical research and writing skills through the exploration of selected topics. Prerequisite(s): HIST 2311, HIST 2312, HIST 1301 and HIST 1302.

HIST 5090. History Comprehensive Examination. 0 Credit Hours.

Comprehensive Examination for non-thesis students in the field of History. The Comprehensive Examination should be completed during the final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis students do not take this examination.

HIST 5198. History Thesis. 1-6 Credit Hours.

Scheduled when the student is ready to begin the thesis. No credit until the thesis is completed. Prerequisite(s): 24 hours graduate credit, including HIST 5380 and at least one research seminar, and consent of major professor.

HIST 5300. Elements of Historical Inquiry. 3 Credit Hours.

Examine history as a profession, including how historians read sources, pose questions, draw inferences, shape their narratives, and engage historical writings.

HIST 5307. Public History Seminar. 3 Credit Hours.

Examine public history careers available for master's level history graduates in areas outside of classroom teaching. This is a gateway course for all public history courses.

HIST 5308. Museum Studies. 3 Credit Hours.

Examine the theory and practice of the multiple careers available to historians in museums, including curating, collections care, educational programming, exhibits, media relations, financial development, and construction and management of facilities.

HIST 5309. Historic Preservation. 3 Credit Hours.

Examine historic preservation as an area of professional employment for historians.

HIST 5310. Archival Principles and Practices. 3 Credit Hours.

Examine the principles and practices of archival management.

HIST 5315. United States Foreign Policy since 1945. 3 Credit Hours.

Explores United States national security and foreign policy since 1945, and the historical antecedents of contemporary foreign policy challenges. Emphasis on policy decisions, domestic and bureaucratic processes, the role of intelligence, and the use of force and diplomacy.

HIST 5320. Selected Topics in State and Local History. 3 Credit Hours.

Explore selected topics in state and local history, as well as readings and research in Texas history. May be repeated when topics vary.

HIST 5322. Selected Topics in American History. 3 Credit Hours.

Research and writing on selected topics in American History. May be repeated for credit when topics vary.

HIST 5325. Readings in American History to 1877. 3 Credit Hours.

Explore the major themes and critical works in selected topics of American History to 1877. Writing assignments will include the types of writing conducted most frequently by historians, including book reviews, literature reviews, and annotated bibliographies.

HIST 5326. Readings in American History since 1877. 3 Credit Hours.

Readings and discussions of selected problems in American History since 1877. May be repeated for credit when topics vary.

HIST 5335. Europe since 1945. 3 Credit Hours.

Study the main turning points in the history of postwar Europe, with an emphasis on the European integration movement. Themes include theories of integration, the democratic deficit, the transparency, accountability, and legitimacy of European policy processes, the Common Market, monetary integration and the Euro, common foreign, security, and the defense policy, social immigration policy, issues of enlargement, and relations between the European Union and non-EU entities.

HIST 5340. Readings In European History. 3 Credit Hours.

Readings and discussions of selected topics in early modern and modern European history. May be repeated for credit when topics vary.

HIST 5342. Selected Topics in European History. 3 Credit Hours.

Research and writing on selected topics in European history. May be repeated for credit when topics vary.

HIST 5360. Readings In World History. 3 Credit Hours.

Readings and discussion of selected topics in the history of regions and countries outside of Europe and the United States. May be repeated for credit when topics vary.

HIST 5362. Selected Topics in World History. 3 Credit Hours.

Research and writing on selected topics in World history. May be repeated for credit when topics vary. Prerequisite(s): None.

HIST 5380. Historiography and Historical Methods. 3 Credit Hours.

Explore various ideological schools of thought in the study of history. Emphasis on recent trends and techniques in historical writing.

Prerequisite(s): HIST 5300 and full admission to the graduate program or permission of instructor.

HIST 5388. History Problems. 1-6 Credit Hours.

Conference course exploring various topics in the study of history, with independent reading, research, and discussion, under supervision of senior professor.

HIST 5391. History Practicum. 3 Credit Hours.

Gain professional experience in workplaces where historians find professional careers including museums, historic preservation, cultural resource management, archival administration, teaching, parks, oral history, corporate history, and editing and publishing. Will count as an elective but not for teacher certification or completion of the history major. May be repeated once for credit. Prerequisite(s): Permission of instructor and department chair. Field experience fee \$75.

Homeland Security (HLS)

HLS 5090. Comprehensive Exam. 0 Credit Hours.

The study and integration of Homeland Security knowledge in order to take the Homeland Security comprehensive exam for non-thesis students. Non-thesis students should register for the comprehensive examination during their final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written. A maximum of three attempts will be allowed. Thesis students do not take this examination.

HLS 5198. Homeland Security Thesis. 1-3 Credit Hours.

Prepare and write a graduate thesis in the field of Homeland Security. This course represents a student's initial and continuing thesis enrollment. At least six total hours is required to complete the thesis requirement. The student continues to enroll in this course until the thesis is submitted and the thesis is successfully defended.

HLS 5300. Linear Regression. 3 Credit Hours.

Introduction to multiple OLS linear regression, use of statpaks and outputs. This course assumes basic competency in upper-level, undergraduate statistics (3 semester hours) and prepares students for comp exams. Prerequisite: undergraduate or graduate coursework in statistics, or instructor approval. This course is cross-listed with CRIJ 5300; only one may be taken for credit. Prerequisite: 3 semesters hours of upper-level, undergraduate statistics, or approval of instructor.

HLS 5301. Advanced Criminology. 3 Credit Hours.

In-depth examination of major theoretical perspectives of crime and delinquency. Theories are analyzed for their logical and empirical adequacy in light of what is known about the distribution of crime. Prerequisite: undergraduate or graduate coursework in criminology/victimology, or instructor approval. This course is cross-listed with CRIJ 5301; only one may be taken for credit. Prerequisite: 3 semesters hours of upper-level, undergraduate or graduate criminology/victimology, or approval of instructor.

HLS 5303. Race and Ethnicity. 3 Credit Hours.

Addresses issues related to racial and ethnic minorities and crime. Perceptions of race, class, offending, and victimization are examined. Disparities in offending, victimization, law enforcement practices, trial processes, and sentencing are examined in depth. This course is cross-listed with CRIJ 5303; only one may be taken for credit.

HLS 5304. Advanced Research Methods. 3 Credit Hours.

The application of social scientific research methods that focus on criminal justice phenomena. Students critically examine research designs and published research. Students produce acceptable research proposals. This course is cross-listed with CRIJ 5304; only one may be taken for credit. Prerequisite: Undergraduate course in Research Methods or approval of instructor.

HLS 5306. Program Evaluation. 3 Credit Hours.

Introduces student to program evaluation, the need for program evaluations, and the methods used to conduct the research. This course is cross-listed with CRIJ 5306; only one may be taken for credit. Prerequisite: Undergraduate course in Research Methods or approval of instructor.

HLS 5307. Homeland Security. 3 Credit Hours.

Study the strategic, legal, policy, operational, and organizational issues associated with the defense of the U.S. homeland from foreign and domestic terrorist threats. Topics include legal issues in Homeland Security, effective interfacing between local, state, and federal agencies, emergency management operations, and planned response strategies. Maybe crosslisted with CRIJ 5307. Only one may be taken for credit.

HLS 5308. Victimology. 3 Credit Hours.

This course includes a comprehensive study of victimization, including the relationship between the victims and offenders, and their interaction with the criminal justice system. Students will provide a literature review on a topic of interest.

HLS 5309. International Terrorism. 3 Credit Hours.

This course will examine the definitions, history, ideology, practices, organizational structure, and conflicts involved in international terrorism. Students will learn about the counterterrorism efforts of the US and its allies, challenges related to combatting terrorism, and how technology and geopolitics impact international relations.

HLS 5310. Domestic Extremism. 3 Credit Hours.

This course examines the proliferation of home-grown (domestic) extremist ideologies and the groups and individuals that are involved in domestic extremism. The social, economic, and cultural factors that produce domestic extremism will be explored. Topics will include right-wing militias, religious extremists, and racial hate groups.

HLS 5315. Graduate Proseminar. 3 Credit Hours.

Introduces students to the department and faculty. Emphasis placed on effective study habits and writing skills associated with research, as well as other activities/parameters that will assist the student in being successful in the program. This course is cross-listed with CRIJ 5315; only one may be taken for credit.

HLS 5320. Religious Terrorism. 3 Credit Hours.

Examine the religious motivations, support, and tactics behind the phenomena of domestic and foreign terrorism. Review case studies and histories of specific terrorist organizations, and discuss justifications for violence and terrorist targets. Cross listed with RELS 5320; only one may be taken for credit.

HLS 5321. Leadership and Supervision. 3 Credit Hours.

Examine leadership and organizational theories focused on identifying problems and solutions in criminal justice management. Utilize the case study method and current literature to explore how leadership styles, human resources, and the organizational environment impact management decisions. Maybe crosslisted with CRIJ 5321. Only one may be taken for credit.

HLS 5322. Advanced Ethics. 3 Credit Hours.

The practical implications and application of moral philosophy and ethics in a free society during the daily administration of criminal justice agencies and their impact on criminal events. This course is cross-listed with CRIJ 5322; only one may be taken for credit. Prerequisite: Undergraduate course in Ethics or approval of instructor.

HLS 5325. Emergency Management. 3 Credit Hours.

Prepares students for leadership roles in emergency management within the private and public sectors. Topics include disaster planning and response, policy analysis, and the importance of ethics and theory in emergency management decision making.

HLS 5350. Emerging Threats. 3 Credit Hours.

This graduate course examines the rapidly evolving landscape of threats to national and global security, focusing on emerging challenges. Students will analyze the impact of new technologies and non-state actors on traditional security frameworks and the rise of transnational threats. The course emphasizes the ever-changing threat dynamic and analyzes current strategies and policies to anticipate, mitigate, and respond to these dynamic security challenges.

HLS 5351. International Crime and Security. 3 Credit Hours.

This course explores the intersection of international crime and security, examining transnational criminal organizations and the global challenges they pose to national and international security frameworks. Students will analyze the role of international law enforcement agencies, intelligence sharing, and policy responses in combating these threats. The course emphasizes strategic approaches to managing complex security risks in a globalized world.

HLS 5352. Exploring Critical Infrastructure Vulnerabilities. 3 Credit Hours.

This course provides an in-depth exploration of the vulnerabilities within critical infrastructure systems, including energy, transportation, water, and cyber networks. Students will examine the potential threats as well as strategies for mitigating risks and enhancing resilience. The course emphasizes risk assessment, security planning, and the development of robust protection measures for critical infrastructure sectors.

HLS 5353. Exploring Critical Infrastructure Vulnerabilities. 3 Credit Hours.

This course delves into the strategies and techniques for identifying, assessing, and mitigating cyber threats. Students will explore the evolving landscape of cyber threats and will develop skills in risk management, incident response, and cybersecurity policy formulation. The course emphasizes proactive defense measures and the application of cybersecurity frameworks to protect critical assets.

HLS 5370. Foundations of Information Security. 3 Credit Hours.

Examine fundamental concepts and principles of information Security Management, and Information Assurance as it affects modern business operations. Explore major issues and legal aspects related to physical, technical, and operational cyber security measures. Develop risk management skills, and learn business access security, communication and network security, operating systems security, and identity and access control management. Maybe crosslisted with CRIJ 5370. Only one may be taken for credit. Prerequisite(s): None.

HLS 5389. Special Topics in Homeland Security. 3 Credit Hours.

Examine selected topics related to homeland security. This course may be repeated when topics vary, for additional course credit.

HLS 5390. Capstone. 3 Credit Hours.

Conducted as independent directed studies, students will develop and execute a research project, integrating concepts from previous courses. The research project will relate to students' specific areas of specialty and interest. The course must be passed with a minimum of a B to complete the degree plan. The course may be repeated once. Dismissal from the program will occur if not successfully completed after two attempts. Prerequisite(s): At least 24 hours must be completed before registering for this course.

Human Resource Management (HRM)

HRM 5090. Human Resources Comprehensive Examination. 0 Credit Hours.

Study and take the human resources examination for non-thesis students. Register for the comprehensive examination during final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis students do not take this examination.

HRM 5302. Human Resource Management. 3 Credit Hours.

Presents the fundamental principles and techniques of personnel management and examines the management of human resources from the point of view of the personnel officer, the operational manager and the employee. Examines the responsibilities of organizational leadership for incorporating human resource issues in strategic planning and initiatives. Emphasis is placed in current legal considerations, issues and research. Prerequisite(s): Management Leveling.

HRM 5303. Employee Learning and Development for Competitive Advantage. 3 Credit Hours.

Students will enhance their ability to be strategic business partners by applying learning and development frameworks to organization issues in an increasingly global and diverse environment that supports competitive advantage. Students will investigate business drivers, employee motivation, how employees learn, training design, program design, and assessing the outcomes and the impact of employee learning and development on business goals. This course links theory and research to HRD practice, emphasizing developing students' skills in business acumen, relationship management, communication, consultation, and collaboration. Prerequisite(s): Management Leveling.

HRM 5305. Employment Law for HR Professionals. 3 Credit Hours.

Students will examine legal issues and regulatory processes related to employment relationships, equal employment opportunity and affirmative action, diversity, privacy, employment testing and staffing, compensation and benefits, employee/labor relations, and occupational health and safety.

HRM 5307. Human Resource Consulting and Job Analysis. 3 Credit Hours.

Study theories, strategies, operational issues and research related to conducting job analyses. Learn job description and specification development. Emphasis is placed on using appropriate techniques to acquire measure, assess and use information gathered in the work place. Explore and develop consulting skills as used in the HR field. Field projects are used extensively. Prerequisite(s): HRM 5302 or the permission of instructor.

HRM 5310. The Adult Learning Environment. 3 Credit Hours.

Examine learning patterns, interests and participation among adults, with implications for training and development programs. Particular attention is given to the joint responsibility for learning between trainer and adult participants.

HRM 5314. Strategic Staffing. 3 Credit Hours.

In this course, students focus on advanced strategic staffing concepts with a view to generating sustainable talent pipeline management and competitive advantage through employees. These concepts include applicant attraction, internal and external staffing, and employee retention. In addition, this course links real-world issues to student learning, emphasizing the development of skills in data analysis, critical evaluation, communication, and consultation skills supporting problem-solving and successful business outcomes. Prerequisite(s): Management Leveling.

HRM 5315. Employee Benefits and Services. 3 Credit Hours.

Examine legal, social and technical issues and research surrounding current trends in employee benefit programs. Analyze group health, disability and life insurance, retirement planning, time-off (leave) and wellness programs. Emphasis is placed on program administration, implementation and evaluation. Prerequisite(s): HRM 5302 or permission of instructor.

HRM 5316. Compensation Management in Practice. 3 Credit Hours.

Explore how a variety of factors such as labor market, organization, and job characteristics affect (or are correlated with) the levels and methods of pay. Examine recent pay related issues such as pay inequality and gender pay gap through data analytics. Emphasis is placed on the development of sound compensation programs which consider current trends, legal implications and social requirements. Prerequisite(s): Management Leveling.

HRM 5324. Employment and Labor Relations. 3 Credit Hours.

Explore the labor union movement and the process of collective bargaining, the formation of a union, labor agreement negotiation, labor agreement administration, grievance processes, and arbitration and mediation. Examine labor law and legal issues in labor relations, including the National Labor Relations Act and the functions of the NLRB. Negotiation skills are developed in mock labor contract negotiations. Prerequisite(s): HRM 5302 and HRM 5301 or HRM 5305 or concurrent enrollment.

HRM 5326. Human Resource Management Seminar. 3 Credit Hours.

Study selected topics in human resource management. Engage in independent research, reading, and discussions under direction of professor. Topics may vary according to student need. May be repeated once for credit when topics vary.

HRM 5330. Global Human Resource Management Practices. 3 Credit Hours.

Study basic international business concepts, cultural literacy, and discipline specific content applied to practical experiences and activities in a visited foreign country. Graduate students will be required to complete an extensive research project in addition to other course requirements. A study abroad at the student's expense is required. Student may complete a maximum of six hours of COBA sponsored study abroad toward degree completion. Prerequisite(s): Admission into a COBA graduate program and permission of instructor. Field experiences fee \$75.

HRM 5334. Professional Issues in Human Resource. 3 Credit Hours.

Examine contemporary professional issues in human resource management. Emphasis on current issues, ethical decision-making processes, work place investigations, and continued professional development. Successful completion of a comprehensive competency examination covering the principal areas within the human resource management functions is required. Prerequisite(s): BUSI 5310, HRM 5302, HRM 5303, HRM 5305, HRM 5314 and HRM 5316, or concurrent enrollment in each.

HRM 5384. Human Resource Management Internship. 3 Credit Hours.

Gain professional experience in the human resource field under the supervision of a faculty-approved management sponsor. Emphasis is placed on the application of human resource management skills to practical problems and situations. A minimum of 20 work hours per week is expected, with a total of 200-300 on-the-job hours required during the semester. Prerequisite(s): Completion of 12 graduate semester hours in Human Resource Management, preregistration coordination and permission of course instructor. Field experiences fee \$75.

HRM 5388. Human Resource Management Problems. 3 Credit Hours.

Study selected problems in human resource management, and conduct research within a specific area of interest. Engage in independent research, reading, and discussions as directed by the responsible professor. Topics may vary according to student need. Prerequisite(s): Permission of department chair.

Liberal Studies (LIBS)

LIBS 3300. Intro to Liberal Studies. 3 Credit Hours.

(WI) Students are introduced to the major issues in interdisciplinary studies. Students research how their academic concentrations emerged as distinct disciplines and produce a research paper and presentation of their findings. Prerequisite(s): ENGL 1301.

LIBS 4395. Liberal Studies Capstone. 3 Credit Hours.

(WI) This course requires students to integrate and use fundamental concepts learned in previous courses within the students' degree concentrations including research and analysis of real-world phenomena and problems. Students present written reports on their research, supplemented by appropriate internet and multimedia materials, as well as portfolios documenting their research. This is a writing intensive course for Liberal Studies majors. Prerequisite(s): LIBS 3300 and senior standing.

LIBS 5090. Comprehensive Examination. 0 Credit Hours.

Non-thesis students should register for the comprehensive examination during their final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis student do not take this examination.

LIBS 5300. Interdisciplinarity. 3 Credit Hours.

This course allows students to assess and to discuss various topic(s) examined from an interdisciplinary approach. Emphasis is upon investigating the contributions of interdisciplinary research in academia. Prerequisite: Graduate standing.

LIBS 5310. Interdisciplinary Methods. 3 Credit Hours.

This course investigates interdisciplinary research methods and the application of these methods. Students research, write, and present projects on topic(s) related to their focus areas. Prerequisite: Graduate standing.

LIBS 5389. Special Topics. 3 Credit Hours.

Readings, discussions, and research of selected interdisciplinary topics. May be repeated for credit when topics vary. Prerequisite(s): N/A.

LIBS 5395. Interdisciplinary Thesis. 1-6 Credit Hours.

Scheduled when the student is ready to begin the thesis. No credit until the thesis is completed. Prerequisite(s): 24 hours graduate credit, including LIBS 5300 and LIBS 5310 completed, and consent of the MSLS Coordinator. Cannot be enrolled concurrently in LIBS 5300 or LIBS 5310.

Logistics & Supply Chain Management (LSCM)

LSCM 4321. Production and Operations Management. 3 Credit Hours.

This course provides an introduction to the principles, problems, and practices of production and operations management. Managerial emphasis will be placed on effectively conducting operations and services for both service-based and manufacturing-based industries. All three aspects of decision making in businesses will be discussed: strategic, tactical, and operational. Topics such as forecasting, operations strategy, process design, capacity planning, location analysis, layout design, quality management, Just-in-time (JIT), lean manufacturing, inventory management, queuing theory, and optimization modeling will be covered. Students may not take both MGMT 4321 and LSCM 4321 for credit. Prerequisite(s): BUSI 3311 and either MGMT 3350 or MGMT 3301.

LSCM 4322. Business Process, Quality, and Lean Management. 3 Credit Hours.

This course equips learners with the essential tools and methods needed to design, analyze, improve, and control the quality of business processes and systems effectively. The course delves into various quality philosophies, notably lean and six sigma, emphasizing the enhancement of crucial performance indicators such as waste reduction, quality enhancement, and streamlining business flows. Key topics covered encompass total quality management, fostering quality cultures, measuring quality and productivity, applying statistics, utilizing fundamental quality improvement tools, embracing lean principles, and utilizing dashboards for monitoring. Prerequisite(s): BUSI 3311 or BUSI 2305.

LSCM 4323. Supply Chain Management. 3 Credit Hours.

Supply Chain Management (SCM) involves all the activities required to plan, execute, and control the flow of goods and services. These activities integrate various resources, infrastructures, information, and financial transactions between different parties such that customer needs are effectively met. This course is an introductory course that provides an understanding of fundamental concepts of SCM. It covers topics related to the planning, designing, and coordinating of processes in supply chains. These topics include (but are not limited to) demand and supply management, purchasing and sourcing, manufacturing, warehousing, transportation and distribution systems, and return management. In addition, contemporary SCM issues or topics such as Enterprise Resource Planning (ERP) systems, E-businesses, closed-loop supply chains, and block chain financial transactions will be covered.

LSCM 4324. Transportation Logistics and Distribution. 3 Credit Hours.

This course provides an overview of the principles and practices of transportation and its role in the distribution process of a supply chain. The management of transportation and distribution activities such as planning, execution, and sourcing will be covered in detail. Emphasis will be placed on both domestic and global transportation and distribution systems. Topics such as freight economics, freight regulations and policies, freight classifications, freight risk management, and fuel management will be covered.

LSCM 4326. Global Procurement and Strategic Sourcing. 3 Credit Hours.

This course offers an in-depth look at a crucial aspect of logistics and supply chain management, emphasizing the critical role of inventory control, storage, and logistical efficiency. Addressing the substantial impact on a company's supply chain assets and workforce, the course underscores the importance of effective management in improving supply chain and financial outcomes. Students will explore essential topics such as inventory management principles, warehouse design and layout, inventory replenishment, order management, order picking, warehouse processes, technology in warehouse management, materials handling and storage, inventory and warehouse costs, metrics and key performance indicators (KPIs), and health, safety, and environmental issues. The course is tailored to provide students with the expertise needed to refine inventory levels, streamline warehouse operations, and enhance supply chain performance.

LSCM 4327. Inventory and Warehouse Management. 3 Credit Hours.

This course offers an in-depth look at a crucial aspect of logistics and supply chain management, emphasizing the critical role of inventory control, storage, and logistical efficiency. Addressing the substantial impact on a company's supply chain assets and workforce, the course underscores the importance of effective management in improving supply chain and financial outcomes. Students will explore essential topics such as inventory management principles, warehouse design and layout, inventory replenishment, order management, order picking, warehouse processes, technology in warehouse management, materials handling and storage, inventory and warehouse costs, metrics and key performance indicators (KPIs), and health, safety, and environmental issues. The course is tailored to provide students with the expertise needed to refine inventory levels, streamline warehouse operations, and enhance supply chain performance.

Management (MGMT)

MGMT 3301. Principles of Management. 3 Credit Hours.

Study the basic managerial functions of planning, organizing, staffing, directing, and controlling resources to accomplish organizational goals. Special emphasis on the systems concept of management and role of the manager in each level of the organization.

MGMT 3302. Personnel and Human Resource Management. 3 Credit Hours.

Study fundamental functions of human resources management, relationship between personnel management and organizations' emerging role of personnel administration in development of strategic policy for organizations.

MGMT 3303. Supervisory Management. 3 Credit Hours.

Investigate the role, function, and responsibilities of the supervisor in modern organizations through study of sociological and psychological theories in human relations. Emphasis is on development of supervisory skills in communications, motivation, discipline, morale, and grievances as they arise in superior-subordinate relationships. Prerequisite(s): MGMT 3301 or permission of department chair.

MGMT 3310. Entrepreneurship I. 3 Credit Hours.

Learn how to identify and evaluate opportunities that may become the foundation for a new business ventures. Learn to develop a new business venture using the business model canvas. Assess the value of a concept and explore opportunity recognition, innovation and creativity, the legal structure of business, and types of entrepreneurial ventures. Prior knowledge in basic business fundamentals and good writing skills are preferred, but not required.

MGMT 3350. Management and Organizational Behavior. 3 Credit Hours.

This course features an introduction to the management functions of planning, organizing, leading, and controlling, as well as the fundamentals of organizational behavior, including values, ethics, motivation, group dynamics, individual differences, attitudes, decision-making, conflict, power, change, stress, leadership, rewards and incentives, communication, organizational culture, and organizational structure.

MGMT 4302. Interpersonal Skills for Business Professionals. 3 Credit Hours.

In this course students will learn the theory and practice of interpersonal skills for business professionals, including negotiation, conflict management, and collaborative work. Some emphasis will be given to identifying and classifying behavior in order to better understand it and to developing strategies for effectively managing interpersonal relationships in a variety of professional contexts. Prerequisite(s): BUSI 3301 and either MGMT 3301 or MGMT 3350.

MGMT 4303. Managing Compensation. 3 Credit Hours.

Understand the various factors that affect the two important compensation decisions: How to (pay method) and how much (pay level) an organization should pay its employees. Emphasis is placed on the understanding of basic concepts, theories, current trends, and legal and social requirements related to the issue of compensation. Prerequisites: BUSI 3301 and MGMT 3302.

MGMT 4304. Recruitment and Selection of Human Resources. 3 Credit Hours.

Study recruitment and selection of human resources for organizations. Examine optimal utilization of human resources within organizations, and the use of tests and other techniques in human resource management. Prerequisite(s): BUSI 3301.

MGMT 4305. Human Resource Development. 3 Credit Hours.

Learn practical and theoretical approaches to training and development of employees in an organization. Study role and scope of training and development functions, philosophies, strategies, needs analysis, development of program content, and evaluation. Prerequisite(s): MGMT 3302 and BUSI 3301.

MGMT 4306. Employer and Labor Relations. 3 Credit Hours.

Study collective bargaining, labor market fundamentals, unionism, and related issues of labor economics. Prerequisite(s): Either MGMT 3301 or MGMT 3350.

MGMT 4310. Entrepreneurship II. 3 Credit Hours.

Develop skills required to manage and grow a new venture past the start-up. Apply general business concepts to the challenges facing entrepreneurs. Draw on a broad range of business disciplines including management, marketing, finance, and accounting to develop a business plan. As such, background knowledge in these areas, as well as good writing skills, is strongly preferred, but not required. Prerequisite(s): Either MGMT 3301 or MGMT 3350, or permission of department chair.

MGMT 4320. Negotiation and Persuasion. 3 Credit Hours.

In this course students will learn the principles and practices of persuasion and of distributive and integrative negotiation. These skills are essential across many personal and professional domains; therefore, this course is open to all majors across all colleges. This course will feature lecture, case studies, and some role play exercises.

MGMT 4321. Production and Operations Management. 3 Credit Hours.

This course provides an introduction to the principles, problems, and practices of production and operations management. Managerial emphasis will be placed on effectively conducting operations and services for both service-based and manufacturing-based industries. All three aspects of decision making in businesses will be discussed: strategic, tactical, and operational. Topics such as forecasting, operations strategy, process design, capacity planning, location analysis, layout design, quality management, Just-in-time (JIT), lean manufacturing, inventory management, queuing theory, and optimization modeling will be covered. Students may not receive credit for both MGMT 4321 and LSCM 4321. Prerequisite(s): BUSI 3311 (or BUSI 2305) and MGMT 3350 (or MGMT 3301).

MGMT 4325. Leadership Theory and Practice. 3 Credit Hours.

Study leadership theories and issues with practical application of newer leadership models in contemporary organizations. Explore facets of both leadership and followership, along with the impact of the particular organizational setting and situation. Explore situation analysis through active reflection, analysis of case studies, simulations, and popular business press treatment of leadership situations. Prerequisite(s): BUSI 3301 and either MGMT 3301 or MGMT 3350.

MGMT 4340. Management Seminar. 3 Credit Hours.

Study current issues in management. Analyze readings from current management publications and other related periodicals. May be repeated for credit when topics vary. Prerequisite(s): 15 hours of MGMT or permission of department chair.

MGMT 4354. International Management. 3 Credit Hours.

Study the international dimensions of the marketplace and environment related to management. Examine the role of culture within international strategic management, organizational behavior and human resource management. Prerequisite(s): MGMT 3301, BUSI 3301 and BUSI 3344.

MGMT 4356. Global Management Practices. 3 Credit Hours.

Study basic international business concepts, cultural literacy, and discipline specific content applied to practical experiences and activities in a visited foreign country. A study abroad at the student's expense is required. Student may complete a maximum of six hours of COBA sponsored study abroad toward degree completion. Prerequisite(s): Junior or senior standing. BUSI 4354, MGMT 4356, or MKTG 4356 may not be taken concurrently. Field assignment fee of \$75.

MGMT 4360. Emergency Management. 3 Credit Hours.

Learn theories, principles and approaches to emergency management. Study the Philosophy of Comprehensive Emergency Management (CEM) with its four phases of preparedness, mitigation, response, and recovery. Analyze past disasters presented along with their attendant policy formations leading to the FEMA all hazards approach.

MGMT 4370. Introduction to Project Management. 3 Credit Hours.

This course provides a comprehensive overview of project management. The culture, principles, and basic techniques of project management are addressed using the project life-cycle as the primary organizational guideline. The project management functions of planning, organizing, motivating and controlling with an emphasis on the application to business and technology are explained. Basic tools of project management such as work breakdown structure, scheduling, earned value analysis, and risk management are explained and demonstrated. Prerequisite(s): BUSI 3301, BUSI 3311, and either MGMT 3301 or MGMT 3350.

MGMT 4371. Managing Schedules, Earned Value, and Risk in Projects. 3 Credit Hours.

This course expands on the fundamental concepts, methods, and problems of scheduling, earned value, and risk management introduced in MGMT 4370. Students will explore different scheduling and cost estimating techniques, as well as managing and controlling project performance in terms of Earned Value Management. Finally, students will explore the management of risks in projects using both qualitative and quantitative methods, determining their potential effects on the project's schedule and budget. Prerequisite(s): MGMT 4370.

MGMT 4372. Project Communication Management and Stakeholder Engagement. 3 Credit Hours.

Students will explore the behavioral aspects of working effectively in the project domain. Students will examine current philosophies of work around enhanced leadership, communication, conflict management, and negotiation skills. Additionally, students will examine the application of those philosophies to organize, manage, and to produce efficient delivery from teams. Students will identify project stakeholders and apply leadership philosophies to engage them in all aspects of the project to ensure successful project completion. Finally, students will examine more contemporary issues in project management, including resolving ambiguity and complexity, the use of improvised working styles, and issues around power and politics within the project. Prerequisite(s): MGMT 4370.

MGMT 4384. Management Internship. 3 Credit Hours.

Participate in a management related position with a public or private business organization that is preapproved and supervised. May be repeated for a total of 6 credit hours. Prerequisite(s): MGMT 3350 and permission of department chair. Field experiences fee: \$75.

MGMT 4388. Management Problems. 1-3 Credit Hours.

Study selected problems in management. Engage in independent research, reading and discussions under the personal direction of the instructor. Topics may vary according to student need. May be repeated with permission of department chair. Prerequisite(s): Senior standing and permission of department chair.

MGMT 5090. Management Comprehensive Examination. 0 Credit Hours.

Study and take the management examination for Non-thesis students. Register for the comprehensive examination during final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis students do not take this examination.

MGMT 5301. Organizational Behavior. 3 Credit Hours.

Learn behavioral theory in organizational context. Study individual and group dynamics in the business environment. Specific emphasis given to leadership, motivation, communication, employee supervision, and morale. This course may also include supplemental management-related content to assist students attempting this course without a business background. Newly-admitted students in the MBA and MS Leadership for Sustainability programs must take this course during their first semester of enrollment.

MGMT 5302. Sustainability in Business. 3 Credit Hours.

The leaders of today's organizations must navigate the challenges surrounding sustainability. Sustainability relates to the creation of long-term value for the triple bottom line of People, Planet and Profit through the adroit management of a firm's social, environmental, and economic impact. This course will provide students with the understanding and tools necessary to integrate sustainability into the business disciplines (marketing, finance, operations, etc.), emphasize how sustainability challenges can be turned into strategic competitive advantage, explore emerging market opportunities for sustainable products and services, and underscore the role of leadership in innovating, organizing, and managing the changes necessary to adopt a "one-planet" approach to survive and thrive in this rapidly changing environment.

MGMT 5305. Analytical Methods of Management Decisions. 3 Credit Hours.

Study analytical techniques which may be used to facilitate decisions analysis. Learn concepts of utility, break even analysis, network models, linear programming, game theory and computer simulation. Use course activity to survey analytical techniques which may be used to facilitate analysis of alternative decisions and practice in applying the techniques through problem solving. Prerequisite(s): BUSI 3311 or MATH 3300 and graduate standing.

MGMT 5306. Influence Organizational Productivity By Interpersonal Relationships. 3 Credit Hours.

Learn the practicals and theories related to interpersonal behavior and its influence on organizational productivity. Learn to identify and classify behavior in order to better understand behavior and to develop strategies for creating productive relationships with others. Particular emphasis is directed toward the impact of interpersonal behavior in business organizations and the potential effect on productivity. A materials fee of \$45 is required for needed course materials.

MGMT 5307. Responsibilities and Ethics of Leadership. 3 Credit Hours.

Analyze an organization's social and environmental responsibilities to its employees, customers, and other key stakeholder groups. Emphasis is given to the case study method for evaluating the performance of various organizations. Develop a theoretical framework for understanding ethics, principles and values of leadership as they affect the organization, the organizational environment, and society.

MGMT 5308. Strategic Organization Design. 3 Credit Hours.

Examines theories, processes and "fit" models of organization design and alignment of structure, technology, information systems, reward systems, people and culture, and management processes with organizational goals. Emphasis is on maximizing the triple bottom line for sustainable effectiveness and how organizations can be led and managed so they are economically, socially, and environmentally sustainable.

MGMT 5309. Global Leadership Theory and Practice. 3 Credit Hours.

Examines both mainstream and emerging theories and approaches to leadership, including models of leadership for sustainability and developing the global mindset necessary for flourishing enterprises to maximize the triple bottom line. Applies leadership principles and models to varied organizational situations with a primary focus on developing leaders who can effectively deal with the economic, social, and environmental challenges global leaders face in today's volatile and chaotic business climate. Students in the MS Leadership for Sustainability program should take this course during their penultimate or final semester in the program. A culminating sustainability case study project is a required part of the course. Students in the MS Leadership for Sustainability program must make a B on this project to pass the course and a B in the course to graduate. Prerequisite(s): MGMT 5301.

MGMT 5310. Leadership Formation and Development. 3 Credit Hours.

This course examines both mainstream and emerging theories and approaches to leadership development and formation, with an emphasis on case study and experiential methods of examining the application of leadership principles and models. It provides each student the opportunity to focus on developing their personal and organizational abilities and skills to become triple bottom line leaders who can better resolve the economic, social and environmental issues of the global, Internet age. Prerequisite(s): Management leveling.

MGMT 5311. Sustainable Operations & Services. 3 Credit Hours.

Focuses on providing students with a broad understanding and knowledge of operations and service management concepts. Emphasis will be placed on incorporating various aspects of sustainability, while designing, managing and controlling business operations and services. In addition, students will be exposed to several analytical tools, models and methodologies that are necessary to design, develop and evaluate various sustainable business operations. Prerequisite(s): Statistics Leveling.

MGMT 5312. Strategic Planning in the Public Sector. 3 Credit Hours.

This course introduces students to strategic planning in the public and nonprofit sectors. Students will recognize the importance of planning and decision making, the differences between types of planning; situational analysis and asset mapping; creation of mission, vision and core value statements; and the development and management of a complete strategic plan. Overall, the course will address the importance of strategic thinking, change management and leadership.

MGMT 5315. International Management for Sustainability. 3 Credit Hours.

This course will focus on international business management through a sustainability lens. Seminal and current research along with relevant real-world examples will be used to expose students to theories and frameworks pertinent to international business functions and cross-cultural management. The course will sensitize students to global business environment opportunities and stimulate generation of team-based international business solutions contributing to sustainable development and consistent with the triple bottom line approach.

MGMT 5320. Negotiations. 3 Credit Hours.

Learn distributive negotiation, integrative negotiation, biases and pitfalls in negotiation, building trust, developing a negotiation style, power, persuasion, ethics, creativity and problem solving. Theoretical lecture/discussion and practical application/skill development, including in-class role plays, are used in this course. A materials fee of \$40 is required for needed course materials.

MGMT 5330. Cross Sector Partnerships for Sustainability. 3 Credit Hours.

Cross-sector partnerships have proven to be one of the most effective approaches to complex environmental challenges. Through case studies of environmental partnerships, literature on collaboration strategies, reflective journals and field research, students will develop the skills necessary to lead future collaborative sustainability initiatives.

MGMT 5340. Management Seminar. 3 Credit Hours.

Explore selected management topics of current importance to business management. May be repeated once for credit when topics vary.

MGMT 5345. Creativity and Innovation. 3 Credit Hours.

This course focuses on creativity and innovation, with particular emphasis on the creativity process and the mechanisms by which it is operationalized into innovation within organizational contexts. This course is based on a multidisciplinary approach to experiential learning focused on innovative, creative, and managerial leadership thinking at the intersection of business, entrepreneurship, intrapreneurship, and social entrepreneurship. Students will learn various tools to promote creativity within themselves and others, processes to increase innovation, how to contribute to a creative team, how to manage creativity, and how to establish a culture of creativity within an organization. This course prepares students to contribute in a unique and productive way to today's entrepreneurial and organizational demands. The role and opportunities related to sustainability in innovation and entrepreneurship will also be emphasized.

MGMT 5350. Project Management. 3 Credit Hours.

Study a comprehensive overview of project management. Analyze culture, principles, and basic techniques of project management using the project life cycle as the primary organizational guideline. Learn project management functions and use basic tools of project management such as work breakdown structure, scheduling, contracting, earned value analysis, and risk management.

MGMT 5356. Global Management Practices. 3 Credit Hours.

Study basic international business concepts, cultural literacy, and discipline specific content applied to practical experiences and activities in a visited foreign country. A study abroad at the student's expense is required. Student may complete a maximum of six hours of COBA sponsored study abroad toward degree completion. Prerequisite(s): Admission into a COBA graduate program and permission of instructor. Field experiences fee \$75.

MGMT 5368. Development & Change for Learning Organizations. 3 Credit Hours.

Students apply strategies for developing organizational learning using behavioral science. Viewing organizations as complex ecological systems, students will master systems thinking related to organization development so that change efforts improve both the organization and the wider systems within which it operates. MS Leadership students should complete this course near the end of their program, preferably in the final semester.

MGMT 5384. Management Internship. 3 Credit Hours.

Participate in a management related position with a public or private business organization that is preapproved and supervised. May be repeated for a total of 6 hours credit. Prerequisite(s): Permission of department chair. Field experiences fee \$75.

MGMT 5388. Management Problems. 1-6 Credit Hours.

Study problems, topics, and perform research in management within the student's area of interest. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. This course offers students the opportunity to study. Prerequisite(s): Permission of department chair.

Marketing (MKTG)

MKTG 3301. Marketing. 3 Credit Hours.

Examine principles and concepts of marketing goods, services, and intangibles by profit and non-profit organizations in a free enterprise and global economy.

MKTG 3312. Public Relations. 3 Credit Hours.

Study the techniques used in planning public relations programs for businesses, schools, churches, and civic associations. Learn press relations, crisis management, advertising, speech writing, and campaign activities. Prerequisite(s): MKTG 3301 and BUSI 3301.

MKTG 3315. Personal Selling. 3 Credit Hours.

Study the role and techniques of personal selling as a component of the marketing mix. Prerequisite(s): MKTG 3301 and BUSI 3301.

MKTG 3316. Consumer Behavior. 3 Credit Hours.

Analyze individual and group behavior of people performing in consumer role. Study buying motives, social class, and research techniques in consumer behavior. Prerequisite(s): MKTG 3301 and BUSI 3301.

MKTG 3317. Retailing. 3 Credit Hours.

Learn fundamental operations of retailing, studying of buying practices, pricing, store locations and layout, sales promotions, personnel management, and stock control. Study design to aid the student seeking a general knowledge of the retail field as well as those specializing in Marketing. Prerequisite(s): MKTG 3301 and BUSI 3301.

MKTG 3318. Promotional Strategy. 3 Credit Hours.

Study a controlled, integrated program of promotional variables. Learn how to present a company and its products to prospective customers, to promote need-satisfying attributes of products toward the end of facilitating sales, and long-run performance. Prerequisite(s): MKTG 3301 and BUSI 3301.

MKTG 3320. Marketing Research. 3 Credit Hours.

Study accurate, objective, and systematic gathering, recording, and analyzing of data about problems relating to marketing goods and services. Prerequisite(s): MKTG 3301, BUSI 3301, and BUSI 3311 (or BUSI 2305).

MKTG 4301. Advertising. 3 Credit Hours.

Analyze advertising in modern media. Study the history, design, effects of advertising, and the uses of different media for advertising purposes. Prerequisite(s): MKTG 3301 and BUSI 3301.

MKTG 4302. Services Marketing. 3 Credit Hours.

Learn about service environment. Analyze the most successful service-oriented industries and firms within the world's fastest-growing economic sector. Prerequisite(s): MKTG 3301 and BUSI 3301.

MKTG 4305. Digital and Internet Marketing. 3 Credit Hours.

This course provides a theoretical and practical understanding of digital marketing. Students will learn various digital marketing practices such as managing and executing search engine optimization campaign (e.g., Google AdWords), building an effective website, and converting clicks into purchases through an experiential learning approach. Prerequisite: MKTG 3301.

MKTG 4316. Marketing Strategy. 3 Credit Hours.

Learning how to formulate and implement a strategic marketing plan to try to achieve a sustainable competitive advantage. This course uses practical approaches, including case studies and a marketing plan project. Prerequisite(s): MKTG 3301, MKTG 3316, and MKTG 3320 or permission of the instructor or department chair. Concurrent registration is allowed with MKTG 3320.

MKTG 4340. Marketing Seminar. 3 Credit Hours.

Examine the current issues/topics in Marketing. May be repeated for credit if the topic varies. Prerequisite(s): MKTG 3301, BUSI 3301 and permission of instructor.

MKTG 4354. International Marketing. 3 Credit Hours.

Study comparative marketing systems, including economic, social, technological, governmental, and political environments as they affect international marketing operations. Prerequisite(s): MKTG 3301, BUSI 3301 and BUSI 3344 or permission of department chair.

MKTG 4356. Global Marketing Practices. 3 Credit Hours.

Study basic international business concepts, cultural literacy, and discipline specific content applied to practical experiences and activities in a visited foreign country. A study abroad at the student's expense is required. Student may complete a maximum of six hours of SOBA sponsored study abroad toward degree completion. Field assignment fee: \$75. Prerequisite(s): MKTG 3301, junior or senior standing and permission of instructor. BUSI 4354, MGMT 4356, or MKTG 4356 may not be taken concurrently.

MKTG 4384. Marketing Internship. 1-6 Credit Hours.

Participate in a marketing-related position with a public or private business organization that is preapproved and supervised. Acquiring a new marketing-related position after approval of the internship or the approval of experiences beyond the scope of the student's present job. May be repeated for a total of 6 hours credit. Prerequisite(s): MKTG 3301, Faculty Sponsorship, and permission of department chair. Field experiences fee: \$75.

MKTG 4388. Marketing Problems. 1-6 Credit Hours.

Study of selected problems in marketing. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. May be repeated with permission of department chair. Prerequisite(s): Senior standing and permission of department chair.

MKTG 4389. Special Topics in Marketing. 3 Credit Hours.

Examine current topics in marketing. Explore required readings from current marketing publications and other related periodicals. May be repeated for credit when topics vary. Prerequisite(s): 9 hours of MKTG.

MKTG 5308. Marketing Management. 3 Credit Hours.

Study the planning and coordination of marketing functions specifically related to product, pricing, promotion, and distribution strategies. Explore case analysis and participate in presentation of results.

MKTG 5309. Marketing Strategy. 3 Credit Hours.

Develop the role of product, pricing, promotion, and channel and physical distribution in the development of a firm's integrated marketing program. Study cases used to evaluate and compose alternative courses of action.

MKTG 5310. Integrated Marketing Communications. 3 Credit Hours.

Study concepts associated with Integrated Marketing Communications (IMCs). Learn an experiential learning approach, wherein students apply the concepts learned in the classroom to the creation of an IMC campaign for an organization.

MKTG 5312. Brand Management. 3 Credit Hours.

Learn branding, what it is, how it works, how it acquires and maintains economic and non-economic value. Explore the origins, power, theory, meaning, relevance and practice of brands, brand development, brand metrics and brand management through an experiential learning approach. Prerequisite(s): MKTG 5308 or permission of department chair.

MKTG 5315. International Marketing. 3 Credit Hours.

Study comparative marketing systems, including economic, social, technological, governmental, and political environments as they affect international marketing operations. Students will be required to complete an extensive research project in addition to other course requirements.

MKTG 5340. Marketing Seminar. 3 Credit Hours.

Explore selected marketing topics of current importance to business marketing. May be repeated once for credit when topics vary.

MKTG 5356. Global Marketing Practices. 3 Credit Hours.

Study of basic international business concepts, cultural literacy, and discipline specific content applied to practical experiences and activities in the foreign country. A study abroad at the student's expense is required. Graduate students will be required to complete an extensive research project in addition to other course requirements. Student may complete a maximum of six hours of COBA sponsored study abroad toward degree completion. Prerequisite(s) Course: Admission into a COBA graduate program and permission of instructor. Field experiences fee \$75.

MKTG 5388. Marketing Problems. 1-3 Credit Hours.

(Credit-variable) Study selected problems in marketing. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Prerequisite(s): Permission of department chair.

Marriage and Family Therapy (MFT)

MFT 5090. Marriage and Family Therapy Theory Comprehensive Examination. 0 Credit Hours.

Study and take the marriage and Family Therapy Theory examination for Non-thesis students. Register for the comprehensive examination during final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis student do not take this examination.

MFT 5301. Introduction of Marriage and Family Therapy Theory. 3 Credit Hours.

Explore the historical development, theoretical and empirical foundations of systems theory including a survey of the major models of marriage, couple and family therapy.

MFT 5302. Advanced Marriage and Family Therapy Theory. 3 Credit Hours.

Examine contemporary therapeutic directions and core competencies in the field of marriage and family therapy.

MFT 5307. Ethics in Marriage and Family Therapy. 3 Credit Hours.

Analyze ethical issues related to the profession and practice of Marriage and Family Therapy including the AAMFT Code of Ethics, professional identity, professional organizations and state licensure.

MFT 5309. Assessment and Treatment of Diverse Families. 3 Credit Hours.

Learn the impact of diversity, power, and privilege as related to culture, class, ethnicity, gender, sexual identity, and religion in families and the influence of context on couple and family treatment. Assess the use of genograms and treatment will focus on effectively helping multi-stressed families.

MFT 5313. The Person of the Therapist Identification. 3 Credit Hours.

Study identification and the development of the person as the therapist, which serves to hone skills in therapy.

MFT 5350. Marriage and Family Therapy Research Methods. 3 Credit Hours.

Learn research methodology, data analysis and the evaluation of research in couple and family therapy. Study how research informs, Marriage and Family Therapy common factors, and evidence based practice.

MFT 5351. Diverse Couples Assessment and Treatment. 3 Credit Hours.

Learn models and skills necessary for effective treatment of couple relationship problems. Integrate issues of diversity into a systemic conceptualization of couple problems. Prerequisite(s): MFT 5301.

MFT 5352. Gender and Sexuality in Marriage and Family Therapy. 3 Credit Hours.

Learn male and female sexual anatomy, and address male and female sexual problems and their treatment. Special Emphasis on sex therapy, including cultural diversity, age, disability and illness, sexual abuse and rape.

MFT 5353. Medical Family Therapy. 3 Credit Hours.

Examine the role of the marriage and family therapist in larger behavioral health systems. Learn collaborative manner addressing the unique psychosocial problems of individuals, couples, and families with acute and chronic medically related concerns. Study principles of individual diagnosis of mental illness as defined in the DSM and the implications for systematically based treatment.

MFT 5355. Treating Military Families. 3 Credit Hours.

Explore unique characteristics of military families and provide an overview of assessment and treatment options for common clinical concerns presented by military families.

MFT 5356. Combat Related Trauma. 3 Credit Hours.

Explore the unique characteristics and symptoms of grief, PTSD and combat related trauma. Study systemic treatment options in order to help clients meet their treatment goals. Materials fee \$50.00.

MFT 5357. Common Factors in Marriage and Family Therapy. 3 Credit Hours.

Explore therapeutic relationship, client factors and hope/expectancy, and their implications for clinical practice.

MFT 5358. Group Process in Marriage and Family Therapy. 3 Credit Hours.

Study human relationships in groups, particularly in the group therapy context. Explore the application of various aspects of group dynamics including leadership, motivation, perception, power and decision making.

MFT 5371. Advanced Couples Interventions. 3 Credit Hours.

Study advanced skills and interventions in Gottman Method Couple Therapy and Emotion Focused Couple Therapy. Prerequisite(s): MFT 5301, MFT 5302 and MFT 5351.

MFT 5372. Relationship Education. 3 Credit Hours.

Study multiple approaches to providing relationship education directly to couples and provides students the opportunity to prepare presentations that could be delivered in real-world settings. Prerequisite(s): MFT 5301, MFT 5302 and MFT 5351.

MFT 5380. Addiction in Marriage and Family Therapy. 3 Credit Hours.

Study systemic framework for understanding addictions and how they impact the family system. Prerequisite(s): MFT 5301 and MFT 5302.

MFT 5381. Adolescent in Family Therapy. 3 Credit Hours.

Explore marriage and family therapy theories in relation to treatment of various disorders in adolescence. Study relational, systemic, and contextual factors that are considered in and behavioral health systems which treat adolescents. Prerequisite(s): MFT 5301, MFT 5302 and PSYC 5304.

MFT 5382. Delinquency in Marriage and Family Therapy. 3 Credit Hours.

Study juvenile delinquency and adolescent substance use through systemic and contextual lens. Examine and compare MFT theories related to juvenile delinquency and adolescent substance use. Prerequisite(s): MFT 5301, MFT 5302, PSYC 5304 and MFT 5381.

MFT 5383. Marriage and Family Therapy Pre-Practicum. 3 Credit Hours.

Study interviewing and training skills in the Marriage and Family Therapy program while preparing for field placement. Gain an understanding of Marriage and Family Therapists, how clients change and basic therapeutic strategies. Explore basic skills and tools necessary to become competent clinicians. Use role playing, videotapes, and video cameras as part of the learning process.

MFT 5391. Clinical Practicum I. 3 Credit Hours.

Gain experience in marriage and family therapy by providing therapy services in the on-campus clinic and additional approved practicum sites while under supervision of the Marriage and Family Therapy faculty. Demonstrate appropriate levels of competency, assessed through direct supervision, video supervision, as well as case conference, maintaining appropriate documentation of clinical work, and meeting clinical hours requirement as described in the departmental handbook. Prerequisite(s): MFT 5301, MFT 5307 and MFT 5383. Field experience fee - \$75.

MFT 5392. Clinical Practicum II. 3 Credit Hours.

Gain experience in marriage and family therapy by providing therapy services in the on-campus clinic and additional approved practicum sites while under supervision of the Marriage and Family Therapy faculty. Demonstrate appropriate levels of competency, assessed through direct supervision, video supervision, as well as case conference, maintaining appropriate documentation of clinical work, and meeting clinical hours requirement as described in the departmental handbook. Prerequisite(s): MFT 5301, MFT 5307, MFT 5383 and MFT 5391. Field experience fee - \$75.

MFT 5393. Clinical Practicum III. 3 Credit Hours.

Gain experience in marriage and family therapy by providing therapy services in the on-campus clinic and additional approved practicum sites while under supervision of the Marriage and Family Therapy faculty. Demonstrate appropriate levels of competency, assessed through direct supervision, video supervision, as well as case conference, maintaining appropriate documentation of clinical work, and meeting clinical hours requirement as described in the departmental handbook. Prerequisite(s): MFT 5301, MFT 5307, MFT 5383, MFT 5391 and MFT 5392. Field experience fee - \$75.

MFT 5394. Clinical Practicum IV. 3 Credit Hours.

Gain experience in marriage and family therapy by providing therapy services in the on-campus clinic and additional approved practicum sites while under supervision of the Marriage and Family Therapy faculty. Demonstrate appropriate levels of competency, assessed through direct supervision, video supervision, as well as case conference, maintaining appropriate documentation of clinical work, and meeting clinical hours requirement as described in the departmental handbook. Prerequisite(s): MFT 5301, MFT 5307, MFT 5383, MFT 5391, MFT 5392 and MFT 5393. Field experience fee - \$75.

MFT 5397. Clinical Practicum V. 3 Credit Hours.

Gain experience in marriage and family therapy by providing therapy services in the on-campus clinic and additional approved practicum sites while under supervision of the Marriage and Family Therapy faculty. Demonstrate appropriate levels of competency, assessed through direct supervision, video supervision, as well as case conference, maintaining appropriate documentation of clinical work, and meeting clinical hours requirement as described in the departmental handbook. Prerequisite(s): MFT 5301, MFT 5307, MFT 5383, MFT 5391, MFT 5392, MFT 5393, and MFT 5394. Field experience fee - \$75.

Mathematics (MATH)

MATH 3300. Principles of Statistics. 3 Credit Hours.

Data collection and analysis, elementary probability, discrete and continuous distributions, regression, correlation, estimation, and nonparametric methods. This course cannot be counted on a degree program for a mathematics major. Credit cannot be awarded for both MATH 3300 and MATH 3450. Prerequisite(s): MATH 1314.

MATH 3301. Number Theory. 3 Credit Hours.

The study of congruence relations, rational integers, diophantine equations, quadratic reciprocity law, linear forms, integral domains, and related topics. Prerequisite(s): 6 hours of MATH including MATH 2413.

MATH 3302. Principles of Geometry. 3 Credit Hours.

Euclidean geometry topics including logic, properties of parallel lines, triangles, quadrilaterals, circles, measurement, similarity, proportionality, and transformations. Technology will be incorporated where appropriate. Credit for both MATH 3302 and MATH 4302 will not be awarded. Prerequisite(s): MATH 2413.

MATH 3303. Concepts of Elementary Math I. 3 Credit Hours.

Problem solving, sets, functions, logic, elementary number theory, concepts of properties of whole numbers, rational numbers, integers, and real numbers. Designed for those planning to teach in elementary school. Prerequisite(s): MATH 1314 and Junior standing.

MATH 3305. Concepts of Elementary Math II. 3 Credit Hours.

Basic concepts in algebra, geometry, calculators and computers, metric system and measurement, and probability and statistics. Meets basic probability requirement for math majors, certifying teachers, and interdisciplinary studies. Prerequisite(s): MATH 3303.

MATH 3306. Differential Equations. 3 Credit Hours.

Solutions and applications of homogeneous and nonhomogeneous ordinary differential equations, including first-order equations and higher-order linear equations. Qualitative properties of solutions are investigated, as well as exact methods for solving differential equations and initial value problems including series, Laplace transform, separation of variables, variation of parameters, and undetermined coefficients. Prerequisite(s): MATH 2414.

MATH 3309. Algebraic Function. 3 Credit Hours.

Survey of elements from Algebra, Trigonometry, Geometry, Probability and Statistics, Finite Mathematics, and Calculus. The class places a strong emphasis on real-world applications and interpretation. Technology will be incorporated where appropriate. Prerequisite(s): College Algebra Math 1414, 1314, or equivalent.

MATH 3310. Discrete Mathematics. 3 Credit Hours.

Introduces students to the techniques and tools of reasoning, decision making, and combinational problem solving. Topics include sets and logic, combinations, probability, relations and functions, Boolean properties, and graph theory. Prerequisite(s): MATH 1314 or MATH 3309.

MATH 3311. Probability & Statistics I. 3 Credit Hours.

This course contains the fundamentals of probability theory and the basics of statistics. Topics include probability axioms, sampling distributions, descriptive statistics, finite random variables, infinite discrete random variables, continuous random variables, and the Central Limit Theorem. Prerequisite(s): MATH 2414 and MATH 3305 or an elementary probability course.

MATH 3315. Mathematics & Technology. 3 Credit Hours.

Use of current technologies related to creating interactive presentations/ documents for math as well as use of current technologies related to mathematical analysis and state certification exams. Prerequisite(s): College Algebra Math 1414, 1314, or equivalent.

MATH 3332. Linear Algebra. 3 Credit Hours.

A study of the theory of real vector spaces and linear transformations. Topics include vector spaces, inner product, norm, distance, subspaces, spanning sets, linear dependence and independence, bases, dimension, linear systems, coordinates, linear transformations, kernel, image, isomorphisms, inverse linear transformations, matrix representations of linear transformations, similarity, direct sums, and canonical forms. Prerequisite(s): MATH 2414 MATH 3310 or instructor's permission.

MATH 3350. Principles of Bio-Statistics. 3 Credit Hours.

An introduction to statistical methods that are applied in biology and agriculture. Use of technology and hands-on spreadsheet assignments are required in this course. Prerequisite(s): MATH 2413.

MATH 3360. Numerical Analysis I. 3 Credit Hours.

An introduction to numerical analysis. Topics are being selected from error analysis, solving algebraic equations, interpolation, numerical differentiation and integration, methods for solving systems of equations, approximation theory, and initial value problems of ordinary differential equations. Prerequisite(s): MATH 2414 and 3 hours of COSC.

MATH 3370. An Introduction to Linear Programming. 3 Credit Hours.

The topics will include Convexity, Extreme Points, Linear Programming for efficiency of mixtures, transportation, and other economic models. Basic analysis of the simplex method and duality will be used to solve such problems and to determine the long-term usefulness of models.

MATH 3375. An introduction to Partial Differential Equations. 3 Credit Hours.

The topics will include advanced vector calculus, the heat and wave equations, separation of variables, Fourier Transforms, convolution, and geometric analysis. Prerequisite(s): MATH 2414 and PHYS 2425.

MATH 3433. Calculus III. 4 Credit Hours.

The calculus of two dimensional vectors, parametric equations, cylindrical and spherical coordinates, multivariable differential calculus, directional derivatives and their applications, multiple integration, vector analysis, line and surface integrals, Green's Theorem, Stokes' Theorem. Use of computer technology and laboratory assignments will be required in this course. Prerequisite(s): MATH 2414.

MATH 4302. College Geometry. 3 Credit Hours.

Euclidean geometry topics including logic, properties of parallel lines, triangles, quadrilaterals, circles, measurement, similarity, proportionality, and transformations. Additional topics include projective and non-Euclidean geometry. Technology is incorporated where appropriate. Substitutes for MATH 3302 for 4-8 certifying students. Prerequisite(s): MATH 2413.

MATH 4303. Mathematics for Data Science. 3 Credit Hours.

This course provides students with a mathematical toolkit essential for data science, focusing on concepts from statistics, probability, linear algebra, and calculus. The course emphasizes practical applications, using data science algorithms and models to demonstrate mathematical principles in action. By the end, students will be equipped with the skills needed to analyze and interpret data and to develop and understand data science models. Prerequisite(s): Math 2414, Math 2318, Math 3311, Math 3315.

MATH 4304. Survey of Mathematical Ideas. 3 Credit Hours.

This course is designed to bring together and supplement the technical material of other mathematics courses to communicate mathematics effectively. Topics in algebra, trigonometry, geometry, statistics, and discrete mathematics will be explored. Technology will be used where appropriate. Prerequisite(s): MATH 2413 and MATH 3302 or MATH 4302 or concurrent registration.

MATH 4304L. Survey of Mathematical Ideas Lab. 1 Credit Hour.

This lab is required for all math majors and must be taken with MATH 4304. This lab addresses and prepares students for content on the state certification exam and will reflect current state requirements for the mathematics state examinations for grade levels 7-12. All other majors requiring MATH 4304 will continue to take base course, but will not take this lab. Prerequisites: MATH 2413 and MATH 3302 or MATH 4302 or concurrent registration and Senior Standing.

MATH 4305. Concepts of Elem Math III. 3 Credit Hours.

This course is designed to develop and extend the mathematical content knowledge of prospective middle school teachers. Topics include the development of algebraic reasoning through the use of patterns, relations, and functions with an emphasis on multiple representations (numerical, graphical, verbal, and/or symbolic). Technology is being integrated into the curriculum where appropriate. Prerequisite(s): MATH 3305 for EC-6 and 4-8 Mathematics majors; MATH 2413 for all other students.

MATH 4309. Advanced Analysis I. 3 Credit Hours.

(WI) A study of the theory of the calculus of functions of a single variable. Topics include the topology of the real line, functions, sequences and their limits, continuity, differentiation, and integration. Prerequisite(s): MATH 2414.

MATH 4311. Probability & Statistics II. 3 Credit Hours.

Continuation of MATH 3311 with focus on statistical inference. Topics include the Central Limit Theorem, sampling distributions, confidence intervals, hypothesis testing, inferences based on two samples, and an introduction to ANOVA. Prerequisite(s): MATH 3311.

MATH 4320. Mathematical Modeling. 3 Credit Hours.

An advanced introduction to models related to applied sciences. Topics include applications of linear programming, scheduling, graph theory, and game theory. Prerequisite(s): MATH 2414 and 6 hours of advanced mathematics or pre-calculus.

MATH 4332. Abstract Algebra. 3 Credit Hours.

(WI) An introduction to abstract algebraic structures, including groups, rings, ideals, polynomial rings, and applications. Prerequisite(s): MATH 3332.

MATH 4380. Undergraduate Research Project. 1-3 Credit Hours.

Methods of research in the mathematical sciences or in mathematics education through a research project directed by a departmental faculty member. The student is required to prepare a final report and presentation. No credit is earned until the student has enrolled in at least 3 credit hours, and the final report and presentation are certified as completed by the faculty member directing the project, at which time the student will receive 3 credit hours. Prerequisite(s): Mathematics major, senior standing, and 24 semester hours of MATH courses and permission of department chair.

MATH 4389. Special Topics in Math. 3 Credit Hours.

Topics are being selected from areas of mathematics suitable for upper level study. This course may be repeated once with permission of department chair, as topics change. Prerequisite(s): MATH 2414 and 6 hours of advanced MATH.

MATH 4488. Mathematic Problems. 1-4 Credit Hours.

Special problems in mathematics. Not covered by any course in the curriculum. Work may be either theory or laboratory. May be repeated with permission of department chair for additional credit when fewer than four credits have been earned. Prerequisite(s): Permission of department chair.

MATH 5090. Comprehensive Examination. 0 Credit Hours.

Non-thesis students should register for the comprehensive examination during their final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis student do not take this examination.

MATH 5198. Thesis. 1-6 Credit Hours.

Scheduled when the student's committee chair determines the student is ready to begin the thesis. No credit is earned until the student has enrolled in at least 6 credit hours of thesis and the thesis is certified as completed by the student's committee, at which time the student will be awarded 6 credit hours of thesis.

MATH 5303. Optimization Theory and Practice. 3 Credit Hours.

This course will introduce optimization methods and their applications. Topics include formulation of optimization problems; analytical and numerical solutions of constrained and unconstrained optimization problems in one or more dimension. Both classical and modern, computationally-intensive methods of optimization will be introduced. Prerequisite(s): Calculus 1 and 2 plus two additional mathematics courses at the 3000 level, or instructor permission.

MATH 5305. Probability & Statistics. 3 Credit Hours.

In this course, you will develop a working familiarity with the grounding principles of probability and statistics from a data analysis perspective. We will review fundamental probability and statistical concepts and introduce data analysis from the Bayesian perspective. This course will also use a high-level programming language for statistical data analysis to study and practice the following methodologies: data cleaning, feature extraction; web scrubbing, text analysis; data visualization; fitting statistical models; simulation of probability distributions and statistical models; statistical inference methods that use simulations. Prerequisite(s): MATH 3311 or equivalent undergraduate course in probability, or permission of instructor.

MATH 5308. Abstract Algebra: Examples and Applications. 3 Credit Hours.

A thorough examination of the algebraic properties of abstract mathematical systems that are essential in higher mathematics, including the complex numbers, modular numbers, functions, permutations, and polynomials. The course also includes applications of these systems in science and technology, including signal processing, information coding, cryptography, and symmetries. Prerequisite(s): MATH 4332 or the equivalent, or instructor permission.

MATH 5311. Operations Research. 3 Credit Hours.

This course examines the theoretical support and applications of the simplex algorithm for linear programming and for dynamic programming. Transportation and scheduling problems are among the applications to be emphasized. Prerequisite(s): MATH 3332.

MATH 5312. Design of Experiments. 3 Credit Hours.

Students will learn about planning and conducting an experiment. Data analysis using appropriate software is covered. Prerequisite(s): MATH 5305 or permission of department chair.

MATH 5315. Operations Research II. 3 Credit Hours.

Selected topics in Operations Research, chosen from among the following: Search, Selection and Optimization Techniques; System Modeling; Network Analysis; Inventory and Production Modeling; Sequencing and Scheduling; Decision Theory; Queuing Theory; Simulation and Monte Carlo Techniques; and Markov Chains.

MATH 5330. Mathematical Modeling. 3 Credit Hours.

An advanced course in mathematical modeling. Topics will be selected from scaling, dimensional analysis, regular and singular perturbation theory, stability theory, and asymptotic analysis. Prerequisite(s): MATH 3306 and MATH 3332.

MATH 5350. Applied Linear Algebra. 3 Credit Hours.

An advanced course in linear algebra. Topics to be selected from linear spaces and operators, canonical forms, quadratic forms and optimization, computation and condition, and compatible systems. Prerequisite(s): MATH 3332.

MATH 5360. Computational Mathematics Theory and Applications. 3 Credit Hours.

An advanced study of numerical analysis. Topics will be selected from linear systems, approximation theory, numerical differential and integral equations, integration theory. Prerequisite(s): MATH 4309 and MATH 3360 or 6 hours of COSC.

MATH 5374. Introduction to Machine Learning. 3 Credit Hours.

This class is designed to prepare the student to master the mathematical and statistical basis for machine learning algorithms, and apply these algorithms to real-world tasks. Students will be required to finish one or more projects using machine learning techniques applied to a data set, and to create appropriate visualizations that display the results of the analysis. Prerequisite(s): none.

MATH 5375. Statistical Reasoning and Probability. 3 Credit Hours.

Topics in applied statistics including ANOVA, experimental design, single and multiple linear regression, hypothesis testing of linear models, forecast errors and confidence intervals. Prerequisite(s): MATH 3311 or equivalent.

MATH 5376. Topics in Secondary Math. 3 Credit Hours.

This course applies the standards of the National Council of Teachers of Mathematics to the curriculum of secondary mathematics. It explores techniques to implement the standards through the use of manipulatives, graphing handhelds, and computer technology. Prerequisite(s): 24 hours of MATH, including MATH 2413.

MATH 5377. Mathematical Visualization Software with Applications. 3 Credit Hours.

This course will use mathematical software to revisit and explain abstract mathematical concepts. The student will learn to use mathematical package to mine, analyze, and visualize data. Students will also become proficient in using software to build dashboards and web applications. Prerequisite(s): None.

MATH 5380. Selected Topics in Mathematics. 3 Credit Hours.

An examination of topics in applied mathematics. Topics for study will be selected from advanced mathematical modeling, advanced numerical techniques, practical optimizations, calculus of variations, dynamic programming, integral equations, optimal control, perturbation methods, and library research in applied mathematics. This course may be repeated for credit as the topic changes. Prerequisite(s): Permission of department chair.

MATH 5382. Guided Research in Applied Mathematics. 3 Credit Hours.

In this course the student will conduct professional-level research involving mathematical curriculum development or developing mathematical solutions for applied problems; implement and verify methods on the computer as needed; and produce publishable material that documents the results of the research. Prerequisite(s): Permission of instructor.

MATH 5389. Problems in Interdisciplinary Mathematics. 1-3 Credit Hours.

Mathematics plays a critical role in other areas of science and engineering. This course will focus on specific problems arising from the application of mathematics to other disciplines. Course may be repeated as different problems will be investigated in different semesters. Prerequisite(s): Permission of graduate coordinator.

Mechanical Engineering Technology (ENGT)

ENGT 3213. Thermal Fluids Lab. 2 Credit Hours.

Thermal Fluids Lab This course introduces students to practical applications of fluid properties, fluid statics, fluid dynamics, and kinematics. Conservation of energy and momentum as well as incompressible laminar and turbulent flow are also utilized in experiments. Corequisite(s): ENGT 3312.

ENGT 3302. Manufacturing Processes. 3 Credit Hours.

Introduction to metal and non-metallic manufacturing processes including casting, forging, rolling, extrusion, sheet metal forming, cutting tools turning and milling operations, abrasive machining, welding and joining powder compaction, molding, forming of plastics, and surface treatments. Prerequisite(s): ENGT 3415 (Pre or Corequisite).

ENGT 3305. Computer Aided Problem Solving. 3 Credit Hours.

This course introduces concepts for solving problems numerically using computers. Students will learn to solve engineering problems using spreadsheet methods, mathematical programs, and basic programming. Prerequisite(s): MATH 2414.

ENGT 3306. Decision Making Models. 3 Credit Hours.

(WI) This course will discuss key decision-making and problem-solving models intrinsic to technical disciplines. Students will concentrate on fundamental problem-solving methodologies, codes of ethics, safety, and environmental responsibility.

ENGT 3310. Applied Thermodynamics. 3 Credit Hours.

This course introduces the theory and application of the laws of thermodynamics in engineering technology. Application of theory will focus on heat engines, heat pumps, refrigeration cycles, and power cycles commonly used in mechanical systems. Prerequisite(s): C Grade in the following courses: CHEM 1411; PHYS 1401 or 2425; ENGR 2301.

ENGT 3311. Fluid Mechanics. 3 Credit Hours.

An introduction to fluid properties, fluid statics and dynamics; conservation of energy and momentum; and incompressible, laminar, viscous, and turbulent flow. Students will learn various problem solving techniques including similitude and dimensional analysis. Prerequisite(s): C Grade in the following course(s): ENGR 2302 or equivalent.

ENGT 3312. Heat Transfer. 3 Credit Hours.

The theory and application of heat transfer in engineering applications will be studied. Topics include steady and unsteady conduction in one- and two-dimensions, forced convection, internal and external flows, heat exchangers, radiation, and elements of thermal system design. Prerequisite(s): ENGT 3310, ENGT3311. Corequisite: ENGT 3213.

ENGT 3320. Quality Control Technology. 3 Credit Hours.

Quality Control This course covers the statistical analysis of data to establish quality control systems for manufacturing facilities. Prerequisite(s): ENGT 3302.

ENGT 3415. Material Science. 4 Credit Hours.

Study of the structure and properties of metallic and nonmetallic materials. This course covers material microstructure; phase diagrams; thermal, optical, electrical properties; testing and failure analysis; and corrosion. Prerequisite(s): C grade in ENGR 2332 or equivalent.

ENGT 4307. Engineering Economics. 3 Credit Hours.

This course emphasizes the systematic evaluation of the costs and benefits associated with proposed technical projects. The student will be exposed to the concepts of the time value of money and the methods of discounted cash flow. Students are prepared to make decisions regarding money as capital within a technological or engineering environment. Prerequisite(s): MATH 2414.

ENGT 4325. Senior Design A. 3 Credit Hours.

(WI) Students will complete a design process starting with topic research through conceptualization and generation of final design and documents. The design process begun in this course will be further developed and implemented in Senior Design B. Prerequisite(s): Senior classification. ENGT 3302, ENGT 3306, ENGT 3312, ENGL 2311 or ENGL 3309 or equivalent.

ENGT 4326. Senior Design B. 3 Credit Hours.

This course is the final formulation, construction, and fabrication of a senior design project started in Senior Design A. Students will analyze results as well as prepare and submit design documents including a project report. Prerequisite(s): ENGT 4325.

ENGT 4421. Solid Modeling. 4 Credit Hours.

A study of the development and application of solid models of components and assemblies. The course covers the use of solid models in problems related to component design, stress analysis, fluid flow, heat transfer, machine dynamics, and assembly interference. Students will produce engineering drawings, visual representations, and data files for machining and rapid prototyping. Prerequisite(s): ENGT 3302.

ENGT 4422. Electrical Power and Controls. 4 Credit Hours.

Fundamentals of electrical and electronic power, controls, and instrumentation for Mechanical Engineering Technology students. This course covers the electric machines and control, Sensors and actuators, interfacing to PLC and PC, Feedback control theory and implementation, and automated data collection. Prerequisite(s): PHYS 1402 or PHYS 2426 or equivalent.

ENGT 4370. Energy Technologies. 3 Credit Hours.

Introduction to energy generation technologies and systems. This course covers basic energy physics, technological components of different energy sources including fossil fuels and renewables, and system level considerations such as efficiency and storage. Prerequisite(s): ENGT 3310.

ENGT 4389. Special Topics in Engineering Technology. 3 Credit Hours.

Study of a topic selected from areas of engineering and engineering technology suitable for upper level study. The purpose of this course is to apply scientific and technological concepts related to the topic to engineering technology problems. Topics may vary, but may include areas related to manufacturing, maintenance, aerospace, automotive, energy, design, sensing, or emerging technologies. May be repeated once for credit if taken under a different emphasis and with approval from ENGT faculty lead or advisor. Prerequisite(s): ENGT 3306, junior or senior classification.

Military Science (MILS)

MILS 3301. Training Mgmt & Warfight Funct. 3 Credit Hours.

This course is designed to enable a student with no prior military or cadet experience to quickly learn essential cadet knowledge and skills. The course introduces the principles of physical fitness, healthy lifestyles and the Leader Development Program that will be used to evaluate leadership performance and provides cadets with developmental feedback, used throughout the year. Cadets learn how to plan and conduct individual and small unit training, as well as basic tactical principles. The course conducts a four-week study of reasoning skills and the military-specified application of these skills in the form of the Army's troop leading procedures. The final four weeks examines officership. This course serves as the first and primary course of the ROTC Advanced Courses.

MILS 3302. Leadership in Small Unit Ops. 3 Credit Hours.

This course is designed to continue the development of cadets as leaders by presenting instructions in the areas of leadership, interpersonal communications, values and ethics. The leadership module expands on key leadership concepts and provides feedback for cadet leadership self-development efforts. Interpersonal communications lessons address general communication theory as well as written and spoken communication skills. The highlight of the communication module is the opportunity for cadets to present an information briefing and receive feedback from both instructor and fellow students.

MILS 4301. The Army Officer. 3 Credit Hours.

This course concentrates on Army operations and training management, communications and leadership skills and supports the beginning of the final transition from cadet to lieutenant. The course enables cadets to attain knowledge and proficiency in several critical areas needed to operate effectively as an Army officer. These subjects have the added benefit of preparing cadets to lead the cadet battalion throughout the remainder of the year. At the end of this semester, cadets possess the fundamental skills, attributes, and abilities required to operate as competent leaders in the cadet battalion.

MILS 4302. Company Grade Leadership. 3 Credit Hours.

The final semester course of the M S IV year trains cadets on Military Law, task organizations, maintenance, supply management, and physical training. Cadets conduct a Capstone Practical Exercise, assuming leadership roles as a lieutenant entering a new unit. The course is designed to prepare transition and groom senior cadets to become Army Officers.

MILS 4305. Intro to Cross Cultural Learn. 3 Credit Hours.

The course enables students to contribute to a local society beyond the University setting. This course is a series of cultural immersion trips sponsored by the US Army Cadet Command over a 29 day period, usually during the summer semester. Prerequisite(s): ROTC cadets accepted into the ROTC program, MILS 3301 and MILS 3302.

MILS 4389. Special Topics. 1-6 Credit Hours.

A course open to Military Science students. Topics vary according to student need. May be repeated for a maximum of 6 hours. Open to students of junior or senior standing. Prerequisite(s): Permission of department chair.

Music Education (MUED)

MUED 3343. Technology Application Music. 3 Credit Hours.

Microcomputers in generation and control of electronic music. Study of one or more commonly available microcomputer programs for MIDI application. Includes technology for music teachers. Prerequisite(s): Admission to the Teacher Education Program.

MUED 4326. Elementary Music Experience. 3 Credit Hours.

This course is designed to facilitate the development of skills, techniques, understandings, and professional dispositions which are necessary for elementary music educators. This course is designed to prepare prospective elementary music educators, public school or secular group, in both musical and non-musical aspects of being a music educator. Prerequisite(s): Admission to the Teacher Education Program.

MUED 4327. Instrumental Music Methods. 3 Credit Hours.

This course is designed to facilitate the development of skills, techniques, understandings, and professional disposition which are necessary for instrumental music educators with a band (wind and percussion) emphasis. This course is designed to prepare prospective instrumental music educators, public school or secular group, in both musical and non-musical aspects of being a music educator. Prerequisite(s): Admission to the Teacher Education Program.

MUED 4328. Orchestra Music Methods. 3 Credit Hours.

This course is designed to facilitate the development of skills, techniques, understandings, and professional dispositions which are necessary for orchestra and guitar music educators. This course is designed to prepare prospective instrumental music educators, public school or secular group, in both musical and non-musical aspects of being a music educator. Prerequisite(s): Admission to the Teacher Education Program.

MUED 4329. Secondary Choral Methods. 3 Credit Hours.

A study of choral repertoire since the middle ages, with an emphasis on programming and teaching choral music to others. Prerequisite(s): Admission to the Teacher Education Program.

Music (MUSI)

MUSI 3129. Intermediate & Advanced Band Repertoire. 1 Credit Hour.

This course focuses increasing knowledge and awareness of the importance of selecting appropriate concert band literature for the contest and concert stage. In addition there will be an emphasis on improving the skills needed to plan, conduct and rehearse instrumental ensembles of a variety of levels.

MUSI 3130. Intermediate & Advanced Orchestra Repertoire. 1 Credit Hour.

This course focuses increasing knowledge and awareness of the importance of selecting appropriate concert orchestra literature for the contest and concert stage. In addition there will be an emphasis on improving the skills needed to plan, conduct and rehearse instrumental ensembles of a variety of levels.

MUSI 3133. Woodwind Class. 1 Credit Hour.

This course is designed to facilitate the development of skills, techniques, understandings, and professional dispositions which are necessary for teaching others to play woodwind instruments.

MUSI 3134. Brass Class. 1 Credit Hour.

This course focuses on the basics of musical performance with special attention to rhythm, tone quality, range, musical phrasing, intonation and style, from different stylistic periods, in a variety of key signatures and meter signatures.

MUSI 3135. Vocal Class (Instrumental Majors). 1 Credit Hour.

This course serves an introduction to singing for instrumentalists who need a pedagogical knowledge for future work with singers or choirs. Instruction will include work on anatomy of the voice, breathing, posture, resonance, diction, repertoire and vocal health. In addition to accessing voices for choral and/or private lesson for singing students.

MUSI 3137. Percussion. 1 Credit Hour.

This course is designed to facilitate the development of skills, techniques, understandings, and professional dispositions which are necessary for choral leadership. This course is designed to prepare prospective choral leaders, public school or secular group, in both musical and non-musical aspects of being a choral teacher.

MUSI 3138. String Class. 1 Credit Hour.

This course is designed to facilitate the development of skills, techniques, understandings, and professional dispositions which are necessary for teaching others to play stringed instruments.

MUSI 3161. Diction for Singers. 1 Credit Hour.

This class will study the proper pronunciations for lyrics of English, Italian, German, and French musical literature. The student is expected to effectively apply these guidelines in their own speech and singing.

MUSI 3162. Opera Workshop. 1 Credit Hour.

This focuses on the organization and staging of standard operas and operettas. May be repeated. Fall (opera), spring (musical).

MUSI 3181. Class Piano for Non Music Majors I. 1 Credit Hour.

The objective of beginning piano class is to develop a wide range of basic functional musical skills. This will enable students to utilize the piano/keyboard for their own enjoyment, as well as to provide a stepping stone for further studies in piano. The course includes studies in understanding and reading of a written musical score, sightreading, repertoire, transposition, improvisation, music theory, and other creative activities.

MUSI 3182. Class Piano for Non Music Majors II. 1 Credit Hour.

The objective of beginning piano class is to develop a wide range of basic functional musical skills. This will enable students to utilize the piano/keyboard for their own enjoyment, as well as to provide a stepping stone for further studies in piano. The course includes studies in understanding and reading of a written musical score, sightreading, repertoire, transposition, improvisation, music theory, and other creative activities. Prerequisite(s): Piano class I for non-music majors.

MUSI 3259. Choral Repertoire. 2 Credit Hours.

This course focuses on the analysis of tonality, harmony and form in European music of the 18th and 19th centuries. Includes aural recognition of forms.

MUSI 3263. Form & Analysis. 2 Credit Hours.

Analysis of tonality, harmony and form in European music of the 18th and 19th centuries. Includes aural recognition of forms. Prerequisite(s): MUSI 2117 and MUSI 2312.

MUSI 3264. Orchestration. 2 Credit Hours.

This course covers the fundamentals of instrumentation and arranging music for instruments and vocalists in a variety of musical performance settings.

MUSI 3301. Musicianship I. 3 Credit Hours.

A basic introduction to the elements of music. This course is designed for students to develop foundational musicianship skills including fundamentals of music theory, sight reading, and ear training. Students will engage in various activities that will enhance their understanding of music reading connected to musical theatre scores and study.

MUSI 3302. Musicianship II. 3 Credit Hours.

A continuation of education in the elements of music from the foundation of Musicianship I. This course is designed for students to develop musicianship skills including music theory, sight reading, ear training, and piano key recognition. Students will engage in various activities that will enhance their understanding of music reading connected to musical theatre scores and study. Prerequisite(s): MUSI 3301 Musicianship I.

MUSI 3313. Music Appreciation. 3 Credit Hours.

This course provides opportunities to become familiar with the basic elements of music. Emphasis is on learning to listen to music and on the role it plays within the wider contexts of history and society. Listening materials are drawn from a variety of sources: classical music, non-Western music, American popular music (particularly jazz, country, and rock), and the American folk tradition.

MUSI 3324. Popular Music in America. 3 Credit Hours.

An introductory study of popular music in the U.S., emphasizing development and application of analytic skills oriented toward the popular arts. Concert attendance and listening requirements.

MUSI 3332. Vocal Literature. 3 Credit Hours.

This course serves as an introduction and examination of solo vocal literature from the standard art song repertory covering the Baroque Period through the early 21st century. Primary composers and their works will be studied in the Italian, German, French, and American/British styles.

MUSI 3343. Computer Assisted Electronic Music. 3 Credit Hours.

This course focuses on the use of microcomputers in generation and control of electronic music. Study of one or more commonly available microcomputer programs for MIDI application. Includes technology for music teachers.

MUSI 3344. Audio Engineering. 3 Credit Hours.

Overview of the recording studio. Includes basic studio electronics and acoustic principles, waveform properties, microphone concepts and placement techniques, studio set up and signal flow, console theory, signal processing concepts, multi-track principles and operation, and an overview of mixing and editing.

MUSI 3351. Topics in Ethnomusicology. 3 Credit Hours.

The purpose of this course is to dig deeply into the musical heritage of one culture and to discover the deep connections between religion, ethics/morals, gender differences, cultural transmission, education, politics, and the music of that culture. The overarching purpose is for students to come to appreciate the interconnectedness and similarities of all cultures by putting a singular musical culture under the microscope.

MUSI 3352. Jazz History. 3 Credit Hours.

The course will cover an in-depth study of the history, literature, and styles of the jazz idiom. Open to music majors only. Prerequisite(s): Students must be enrolled in the Bachelor of Music program.

MUSI 4095. Senior Recital. 0 Credit Hours.

Senior Recital is a course in which the student prepares for and performs in their senior recital.

MUSI 4098. Senior Recital. 0 Credit Hours.

Senior Recital is a course in which the student prepares for and performs in their senior recital.

MUSI 4105. Beginning Conducting. 1 Credit Hour.

This class is an introduction to basic conducting skills with an emphasis on the art and study of conducting, baton technique, left hand technique, non-verbal communication, leadership, conducting terminology, transpositions and score reading.

MUSI 4207. Advanced Conducting. 2 Credit Hours.

This class is focused on advanced conducting skills.

MUSI 4312. Vocal Pedagogy. 3 Credit Hours.

This course focuses on the physical aspects of the vocal mechanism, anatomy, breathing, resonance, phonation, articulation and various techniques used in identifying vocal problems and pedagogical issues for a singer as a choral director and voice teacher.

MUSI 4322. Song Interpretation. 3 Credit Hours.

In connection to applied voice, this course will allow students to further engage in characterization and the art of interpretation through song analysis with musical theatre repertoire. Students will learn to develop emotional expression, truthful to the character objective and character analysis skills necessary for effective performance. The course will cover a range of styles and periods in musical theatre, providing students with tools to bring authenticity to their performances. The course will involve both research-based learning and performance participation. Prerequisite(s): Minimum of 4 credits of MUAP 3269.

MUSI 4326. Elementary Music Methods. 3 Credit Hours.

This course is designed to facilitate the development of skills, techniques, understandings, and professional dispositions which are necessary for elementary music educators. This course is designed to prepare prospective elementary music educators, public school or secular group, in both musical and non-musical aspects of being a music educator.

MUSI 4327. Instrumental & Marching Methods. 3 Credit Hours.

This course focuses on teaching and procedural methods required to produce a quality marching band and instrumental program.

MUSI 4328. Sec Orchestra & Guitar Methods. 3 Credit Hours.

This course focuses on teaching and procedural methods required to produce a quality orchestra program.

MUSI 4341. Music Entrepreneurship. 3 Credit Hours.

This course provides information on artistic and pragmatic areas for the aspiring professional musician. Topics include goal-setting, how to building professional networks, effective development and use of promotional materials, funding models, social media and the internet, and basic financial information. A wide range of career options in music will be explored.

MUSI 4384. Music Internship. 3 Credit Hours.

This course will immerse students into the professional world of the music industry through experience interning with their chosen path of the music profession such as Music business, private music instruction, composition, and music therapy. Prerequisite(s): MUSI 4341.

MUSI 4388. Problems. 1-6 Credit Hours.

A directed study of selected problems in music.

MUSI 4398. Senior Recital. 0 Credit Hours.

Senior Recital is a course in which the student prepares for and performs in their senior recital.

Music - Applied (MUAP)

MUAP 3269. Private Lesson Instruction V. 2 Credit Hours.

This course is designed to provide individualized instruction in solo technique and repertoire for the musical performer. Prerequisite: 4 semesters of private instruction.

MUAP 3270. Private Lesson Instruction VI. 2 Credit Hours.

This course is designed to provide individualized instruction in solo technique and repertoire for the musical performer. Prerequisite: 5 semesters of private instruction.

MUAP 4269. Private Lesson Instruction VII. 2 Credit Hours.

This course is designed to provide individualized instruction in solo technique and repertoire for the musical performer. Prerequisite: 6 hours of private instruction.

MUAP 4270. Private Lesson Instruction VIII. 2 Credit Hours.

This course is designed to provide individualized instruction in solo technique and repertoire for the musical performer. Prerequisite: 7 semesters of private instruction; Corequisite: MUSI 4098 (Senior Recital) required.

Music Ensemble (MUEN)

MUEN 3121. Symphonic Band. 1 Credit Hour.

Rehearsal and performance of quality concert band literature from a variety of styles. Open to any student by audition only.

MUEN 3123. Orchestra. 1 Credit Hour.

Rehearsal and performance of quality orchestral literature from a variety of styles. Open to any student by audition only.

MUEN 3124. Jazz Ensemble. 1 Credit Hour.

Rehearsal and performance of quality jazz ensemble literature from a variety of styles. Open to any student by audition only.

MUEN 3142. Chorale. 1 Credit Hour.

Designed to give participants a challenging, stylized choral experience. Performs a wide variety of literature, emphasizing the more difficult choral works. Open to any student by audition.

Nursing (NURS)

NURS 3300. Professional Role Transitions. 3 Credit Hours.

Nursing is defined, especially as it relates to promotion and restoration of health. Roles of the nurse are explored, Professional nursing is examined from historical and contemporary perspectives, including the philosophy and theoretical foundations that define professional nursing practice. Students will examine personal, professional and cultural values as influences upon nursing practice. The process of critical thinking and the use of nursing informatics is examined from multiple perspectives. Due to the importance of understanding the role of the nurse, this course is required to be taken in the first semester of the program. Prerequisite(s): ENGL 1302 or 2311 and admission into the nursing program.

NURS 3304. Nursing Research. 3 Credit Hours.

(WI) This course is a study of basic research methodologies and an examination of the professional nurse's role in evidence-based practice. Students employ high level critical thinking and informatics skills to explore, identify, and critically appraise the credibility of Internet sources and library electronic databases to gather relevant evidence across professions that answer questions about nursing practice. Through this examination, students increase their awareness of the impact of culture and ethics on the research process and evidence-based practice. Prerequisite(s): MATH 1342 Elementary Statistics. Pre or Co-requisite NURS 3300.

NURS 3307. Health Assessment. 3 Credit Hours.

In this course, the concepts and principles underlying the assessment of the health status of culturally diverse individuals are presented. Emphasis is placed on reviewing and renewing cognitive, affective, and psychomotor skills to obtain health histories and discover physical and psychosocial findings in the well person. Emphasis is placed on health assessment as a systematic and organized examination that will provide accurate data to form valid nursing diagnoses and plans of care. Practicum experiences allow students to enhance comprehensive health assessment and analysis skills. Prerequisite(s) or Corequisite(s): NURS 3300.

NURS 3317. Pathophysiology/Pharmacology for the Registered Nurse. 3 Credit Hours.

The focus of this course is to understand the pathophysiological basis for disease processes in adults and children. Central concepts will address symptoms, treatment, and prognosis. The major direction of this course will be on clinical application of findings that underlie pathogenesis and pharmacology that provides a basis for evidence-based practice. The course is specifically designed to meet the needs of nursing students. Prerequisite(s) or Corequisite(s): NURS 3300.

NURS 3330. Nursing Care of Older Adults. 3 Credit Hours.

In this course the aging process will be examined with a focus on risk reduction and disease prevention in the older adult. The concept of healthy aging will be explored. Strategies for health promotion, restoration, and maintenance of the older adult will be examined. Expected professional nurse competencies in providing and directing culturally sensitive care of the older adult across the wellness/illness continuum will be emphasized. The practicum experience reinforces appropriate interactions and assessment of the older adult. Prerequisite(s): NURS 3307.

NURS 4212. Professional Issues for the Registered Nurse. 2 Credit Hours.

This course provides opportunities for analysis of elements that reflect the progressive development of the role of the professional nurse. It formalizes a framework that integrates the issues of political action, socio-legal concerns, multiculturalism, and ethical models into nursing practice through the debate process. Prerequisite(s): NURS 3300, NURS 3304, GOVT 2305, and GOVT 2306.

NURS 4220. Professional Topics in Nursing. 2 Credit Hours.

This course is designed to promote nationally recognized nursing specialty certification exam. After developing a plan of study approved by the nursing program director, the student will conduct an independent study in the field of nursing specialty certification under the direction of a faculty member. Evidence of exam completion will be required for credit to be awarded. Specialty certification must be in an area recognized by a national certifying body such as the the National Commission for Certifying Agencies and the Accreditation Board for Specialty Nursing Certification. Prerequisite(s): NURS 3300, NURS 3304, Advisor approval required for enrollment.

NURS 4306. Community Health I. 3 Credit Hours.

In this course, students are introduced to public/community health nursing practice and the role of systems in the care of culturally diverse populations. The role of the professional nurse as part of an inter-professional team in health promotion, disease prevention, and management of chronic health problems in community settings is explored. Students apply critical thinking and information technology skills to develop and implement evidence-based projects that positively impact the quality of life of identified populations. Prerequisite(s): NURS 3300, 3304.

NURS 4307. Community Health Nursing II. 3 Credit Hours.

This course will focus on applying concepts learned in NURS 4306 in a 45-hour practicum in a community setting. Issues of health promotion, interprofessional education and teamwork, primary disease prevention, and management of chronic health problems in community settings will be assessed. The student will use research findings to determine interventions for community settings, the environment of care, and the needs of vulnerable populations in the community settings. Prerequisite(s): NURS 4306, NURS 3304, NURS 3300.

NURS 4405. Care of Individuals and Families. 4 Credit Hours.

(WI) This course emphasizes the importance of the professional nurse's engagement in ethical and evidence-based practice. Students examine nursing case management concepts as they apply critical thinking skills to integrate the concepts of pathophysiology, pharmacology, psychosocial behavior, and cultural competence to coordinate quality and safe care in a variety of settings. Students experience the nurse educator role as they employ teaching and learning principles and nursing informatics to initiate interventions with individuals and families that highlight health promotion activities. Practicum experiences are individualized. Prerequisite(s): NURS 3300, NURS 3304, and SOCI 1301.

NURS 4310. Leadership and Management for the Registered Nurse. 3 Credit Hours.

In this course, theories and principles of human behavior in organizations are examined, including an exploration of leadership roles in professional nursing practice. Students analyze concepts that reflect the progressive development of the nurse leader who applies critical thinking and information technology skills to evidence-based practice. The role of the nurse leader as an inter-professional team member is also examined. The importance of the nurse leader as a role model for continued professional growth through lifelong learning is emphasized. Issues related to political action, socio-legal concerns, cultural diversity, and ethics in professional nursing practice are explored with an emphasis on the advocacy role of the nurse. Prerequisite(s): NURS 3300, NURS 3304.

NURS 5300. Professional Nursing Science and Theory Application. 3 Credit Hours.

Professional nursing science refers to the scientific foundation of nursing practice and application to practice. Exploration on how nursing theories inform decision-making, guide patient assessments, promote holistic care and contribute to the development of nursing interventions and evaluations. By integrating scientific knowledge and theoretical frameworks, MSN graduates are better prepared to excel in leadership roles, specialized practice areas, education, and research endeavors within the nursing field. Prerequisite(s): Must be admitted to Master of Science in Nursing program to take course.

NURS 5305. Principles of Nursing Research. 3 Credit Hours.

Nursing research is a required component of advanced practice nursing as it equips nurses with the knowledge and skills to critically analyze and apply research findings in a clinical setting. Graduates will explore theoretical and ethical issues in translating evidence into practice and explore opportunities for innovation and changes in practice. Prerequisite(s): Must be admitted to Masters of Science in Nursing program to enroll in course.

NURS 5310. Application of Evidence-Based Practice. 3 Credit Hours.

Application of evidence-based nursing is a critical component for the nurse leader. This course empowers the graduate nurse that applies skills to contribute to evidence-based care, improve patient outcomes, and advance the nursing profession. The advanced nurse will be able to advance the scholarship of nursing by integrating evidence into practice by promoting the ethical conduct of scholarly activities applied to a clinical issue. Prerequisite(s): NURS 5305, Must be admitted into the Master of Science in Nursing program to enroll in course.

NURS 5315. Informatics. 3 Credit Hours.

Nursing informatics is a developing science made up of the skills to integrate nursing science with information and analytical science. Nursing informatics identifies, defines, manages, communicates data and knowledge in nursing practice. Nursing informatics utilizes and develops technologies and innovates processes to obtain, strategize, and analyze data to increase patient safety and enhance medical economics. Prerequisite(s): Must be accepted into Master of Science in Nursing program to enroll in this course.

NURS 5330. Nursing and Organizational Management Theory. 3 Credit Hours.

This course explores the management and organizational theories and structure that guides the management of the nursing services and health organizations Prerequisite(s): Must be admitted to the Masters of Science in Nursing program to enroll in this course.

NURS 5420. Population Health. 4 Credit Hours.

Population health examines significant health concerns to populations of people and the resources for prevention, treatment, and health promotion within a given population. Population health spans the healthcare delivery continuum while collaborating with individuals and organizations toward health equity and improved health for all. Focus on diversity, equity, inclusion, and ethics are supported for a diverse population to achieve appropriate population outcomes. Prerequisite(s): Must be admitted into the Masters of Science in Nursing program to enroll in course.

NURS 5432. Financial Management. 4 Credit Hours.

This course will analyze strategic planning and financial management of healthcare organizations. The relationship between strategic and financial planning, budgeting, and reimbursement systems in healthcare will be explored. Prerequisite(s): Must be admitted to the Masters of Science in Nursing program to enroll in course.

NURS 5434. Nursing and Healthcare Environment Leadership. 4 Credit Hours.

This course explores the leadership strategies for today's and tomorrow's healthcare environment. Workforce and workplace challenges, leadership, and evidence-based solutions to challenges will be explored. Prerequisite(s): Must be enrolled in Masters of Science in Nursing program to enroll in this course.

NURS 5436. The Role of the Nurse Administrator. 4 Credit Hours.

In this course, the roles of the nursing and healthcare administrator will be explored and implemented. The responsibilities of the nurse administrator in accreditation and licensure of the healthcare organization and programs will also be explored. Prerequisite(s): Must be admitted to the Masters of Science in Nursing program to enroll in this course.

NURS 5538. Nurse Administrator Seminar. 5 Credit Hours.

This course will synthesize the role of the nurse administrator. The skills learned in previous experiences will be used to develop a capstone project focused on the nurse administrator's skill. In addition, the experience should include implementation of administrative and managerial roles in the health care organization. This course will include a 120-hour practicum experience with an experienced nurse administrator. The minimum grade required to pass this course will be a B. Prerequisite(s): Must be admitted to Master of Science in Nursing program to enroll in this course.

Physics (PHYS)

PHYS 3331. Mechanics. 3 Credit Hours.

Particle dynamics in one, two, and three dimensions; conservation laws; dynamics of a system of particles; motion of rigid bodies; central force problems. Prerequisite(s): MATH 3306 and MATH 3433; or concurrent registration.

PHYS 3332. Electromagnetic Field Theory. 3 Credit Hours.

Electrostatics; Laplace's equation; the theory of dielectrics; magnetostatic fields; electromagnetic induction; magnetic fields of currents; Maxwell's equations. Prerequisite(s): PHYS 2426 and MATH 3306 or concurrent registration; MATH 3433 or concurrent registration.

PHYS 3333. Thermodynamics. 3 Credit Hours.

Concept of temperature, equations of state; the first and the second law of thermodynamics; entropy; change of phase; the thermodynamics functions. Prerequisite(s): PHYS 2426; MATH 3433 or concurrent registration.

PHYS 3334. Modern Physics. 3 Credit Hours.

Foundations of the atomic theory of matter; kinetic theory; elementary particles; radiations; atomic model; atomic structure; atomic spectra and energy levels; quantum theory of radiation; x-rays; special theory of relativity. Prerequisite(s): PHYS 2426 and MATH 3433, or MATH 3306 or concurrent registration.

PHYS 3350. Medical Physics I. 3 Credit Hours.

The course will provide an introduction to the physics of human physiological processes as well as the physics used in the design of medical diagnostic tools and techniques. Prerequisite(s): PHYS 2426 or consent of the instructor.

PHYS 4170. Undergraduate Research Project. 1-2 Credit Hours.

Methods of research in physics or in physics education through a research project directed by a departmental faculty member. The student is required to prepare a final report and presentation. No credit is earned until the student has enrolled in at least 2 credit hours and the final report and presentation are certified as completed by the faculty member directing the project, at which time the student will receive 2 credit hours. Prerequisite(s): junior standing and 14 semester hours of PHYS.

PHYS 4330. Mathematical Methods of Phys. 3 Credit Hours.

Mathematical techniques from the following areas: infinite series; integral transforming; applications of complex variables; vectors, matrices, and tensors; special functions; partial differential equations; Green's functions; perturbation theory; integral equations; calculus of variations; and groups and group representatives. Prerequisite(s): MATH 3306 and MATH 3433.

PHYS 4335. Quantum Physics. 3 Credit Hours.

The Schrodinger equation; one dimensional systems; the Heisenberg uncertainty principle; magnetic moments and angular momentum; two and three dimensional systems; approximation methods; scattering theory. Prerequisite(s): PHYS 3334 and MATH 3306.

Political Science (POLI)

POLI 3300. Critical Thinking About Politics. 3 Credit Hours.

Introduces students to political science research tools and the application of critical thinking techniques to politics and political science. Topics include finding reliable sources, critically evaluating sources, identifying political agendas and propaganda, using and critiquing polls, and examining the social-scientific approach to political science. Offered in Fall semesters.

POLI 3301. Political Economy of Globalization. 3 Credit Hours.

Examine the global economic and financial system. Identify cultural, ideological, and political influences behind the global economic system. Topics include, among others, trade relations, monetary policy, international organizations, and development.

POLI 3302. Elections and Political Parties. 3 Credit Hours.

Elections are the most common way citizens participate in American democracy. This course examines the electoral process in American political systems as well as the evolution and role of political parties. Topics include electoral law, campaign strategy, public opinion polling, voter motivations, campaign finance, media influence, and more.

POLI 3303. Comparative State and Local Government. 3 Credit Hours.

Explore variations and similarities in the practice of politics and in the administration of government in the states. Special Emphasis on local government and state-national relations. Prerequisite(s): GOVT 2305, GOVT 2306.

POLI 3304. The American Presidency. 3 Credit Hours.

This course examines in depth, the institution of the Presidency including its development, duties, and powers. We will analyze the institution as it relates to the modern condition of divided government and the constitutional standard of the separation of powers. Students will be exposed to both recent and essential scholarship on the presidency in order to understand the institution from several perspectives.

POLI 3305. US Congress and Legislative Process. 3 Credit Hours.

This course examines the structure and processes of the United States Congress. The course begins with an exploration of Constitutional and informal powers and how elections and parties affect the structure and role of Congress. Further study will consider legislative processes including budgeting, committee work, rules for debate and passage of legislation, and differences between the House and the Senate. Students will also be familiarized with how Congress and legislation interact with other institutions.

POLI 3306. Political Economy. 3 Credit Hours.

Examine the links between the economic and political systems at various levels of analysis (i.e. state level, international level, etc). Historically and theoretically explore issues related to inequality, redistribution, development, populism, and more.

POLI 3307. Public Administration. 3 Credit Hours.

Introduction to public administration that explores budgeting, organizational theory, management of government bureaucracies, and policy implementation and review.

POLI 3308. International Politics. 3 Credit Hours.

(WI) Explore the development of the national state system, the problems and issues which have arisen, international agencies created to cope with these problems, and the principles of international conduct.

POLI 3310. Environmental Politics. 3 Credit Hours.

Explore the politics of environmental protection in America. Special emphasis on domestic environmental policy and the affects of federalism in shaping and implementing environmental policies. Prerequisite(s): GOVT 2305.

POLI 3320. Terrorism and Political Violence. 3 Credit Hours.

Examine the causes, tactics, and effects of terrorism and other forms of political violence while differentiating types of terrorism (i.e. state-sponsored, religious, dissident) and reflecting on prevention and counter-terrorism.

POLI 3330. Understanding Social Science Research. 3 Credit Hours.

(WI) Develop skills in political science research, with emphasis on hypothesis testing, measurement, formal modeling, and statistical analysis. Statistical concepts covered include central tendencies and statistical distributions, regression, and maximum likelihood estimation.

POLI 3350. Politics and Propaganda in Media. 3 Credit Hours.

(WI) This course explores the political uses of media and its influence on public opinion. Topics covered include government-sponsored and privately-produced propaganda, the role of media in broader propaganda or political campaigns, and the ethical uses of media in the context of politics.

POLI 3355. Religion and Politics. 3 Credit Hours.

Explore the role of religion in American society and political development including its impact on political campaigns, interest group activity, and domestic terrorism. Special emphasis will be given to Constitutional and legal standards and the impact on religious minorities. The course will also examine how religion, comparatively, interacts with foreign political systems.

POLI 4302. Constitutional Law. 3 Credit Hours.

Examine the origin and development of constitutional prohibitions as shown by leading US Supreme Court decisions on civil rights, contracts, due process, economic regulation, eminent domain, labor relations, obscenity, political utterance, and religion. Prerequisite(s): GOVT 2305.

POLI 4305. Comparative Government and Politics. 3 Credit Hours.

Examine the characteristics and differences between national political systems throughout the world including how culture and economy influences forms of government, how governments transition, particularly between democratic and authoritarian forms, and implications for international relations.

POLI 4312. Politics of Race. 3 Credit Hours.

Examine the concepts of race and racism, and how they shape theories of the social contract, American government, comparative politics, and international relations.

POLI 4313. Politics of Sex and Gender. 3 Credit Hours.

Explore the roles that sex and gender play in politics, including policymaking, political behavior, and the discipline of political science itself.

POLI 4315. Foreign Policy. 3 Credit Hours.

A study of current and historical challenges in American foreign policy. Through the study of theory, American institutions, international institutions, and historical events, students will critically analyze America's role in international affairs since WWII and reflect upon how theories such as Realism, Liberalism, and Critical Theories impact decision making and our understanding of global affairs.

POLI 4316. Conflict Studies. 3 Credit Hours.

Study the causes of international and civil conflict, historical changes in the nature of war, and predictions of future conflicts.

POLI 4317. Peace Studies. 3 Credit Hours.

Explore the causes of peace, covering bargaining and war termination, social conflict resolution, international cooperation, and the ethics of peace.

POLI 4318. Issues in American Politics. 3 Credit Hours.

The purpose of this course is to help students understand contemporary issues in American policy. Topics will vary. Several concepts will be addressed including: federalism; the role of government; limitations on government resources; varying viewpoints on each of the policy issues addressed.

POLI 4320. Weapons of Mass Destruction. 3 Credit Hours.

Examine the physical and political effects of chemical, biological, and nuclear weapons, with emphasis on issues of deterrence and arms control.

POLI 4321. Civil Wars and Military Intervention. 3 Credit Hours.

Examine the causes, characteristics, and effects of civil wars, with particular emphasis on preventing the resumption of warfare after peace agreements, and the effect of military intervention on the outcome and recurrence of civil war.

POLI 4340. Political Ethics. 3 Credit Hours.

Compare theories of political ethics from ancient times to the present. Special attention is given to the topics of justice and virtue.

POLI 4341. Freedom and Authority. 3 Credit Hours.

Examine the legitimacy of government and the sources of individual rights. Special attention is given to the idea of a "social contract," restraints on government, arguments for and against restricting liberty, and who should be permitted to participate in politics.

POLI 4350. Political Science Seminar. 3 Credit Hours.

Explore topics in government with independent reading, research, discussion, and writing, under personal direction of instructor. May be taken more than once for credit. Prerequisite(s): Senior standing, 18 hours of POLI, or permission of Program Coordinator.

POLI 4360. Politics of Language. 3 Credit Hours.

Explore the political consequences of language, including the use of language as a tool of political control, the deployment of rhetoric by citizens and other political actors to craft persuasive arguments, and the political struggle over the legal meaning of specific words and phrases.

POLI 4365. Politics of Literature. 3 Credit Hours.

Examine the politics of fiction through a single author or genre to critically evaluate its role in political persuasion, especially normative political theory. Attention is paid to the political uses of genre conventions and the political power of shared myths. POLI 4365 may be repeated once for credit when the author/genre covered differs.

POLI 4380. Administration of Justice. 3 Credit Hours.

Analyze the structure, function, and interrelationship of the components of the criminal justice system at the federal, state, and local levels, including the history and philosophy of criminal justice in a democratic society.

POLI 4384. Political Science Internship. 3,6 Credit Hours.

Apply and integrate academic study with professional experience in Political Science. Field projects include direction of a political campaign, internship in a city or county administrative office, or in a not-for-profit organization for analyzing or carrying out governmental policy. Minimum of 160 hours of work required for 3 hours of credit. Prerequisite(s): 2.5 overall grade point average, senior standing, and permission of Program Coordinator. Field experience fee \$75.

POLI 4388. Political Science Problems. 1-3 Credit Hours.

Explore problems in Political Science with independent reading, research and discussion. Entry into this course will be arranged with the political science advisor and instructor.

POLI 4390. Collaborative Political Science Research Seminar. 3 Credit Hours.

Become part of a team contributing to a real-world research project in political science. Prerequisite(s): POLI 3300 or POLI 3330 or Instructor Permission.

POLI 4395. Political Science Capstone. 3 Credit Hours.

(WI) Integrate and use fundamental concepts learned in previous political science courses to research and analyze real-world political phenomena and problems. Students present oral and written reports on their research, supplemented by appropriate internet and multimedia materials, as well as portfolios documenting their research.

POLI 5090. Political Science Comprehensive Examination. 0 Credit Hours.

Non-thesis students should register for the comprehensive examination during their final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis students do not take this examination.

POLI 5300. Political Science Research Methods. 3 Credit Hours.

Learn the elements of research design and statistical analysis. Topics covered include hypothesis-testing, reliability and validity, measures of association, linear regression, and maximum likelihood estimation.

POLI 5301. Political Decision-Making. 3 Credit Hours.

Learn formal models of political decision-making, including game theory, spatial voting models, decision theory, and collective social choice.

POLI 5302. Constitutional Law. 3 Credit Hours.

Predict the resolution of constitutional controversies by examining theories of constitutional interpretation and judicial decision-making in the United States.

POLI 5303. Origins of Conservative Political Thought. 3 Credit Hours.

This course covers the philosophical origins of conservative political thought, focusing on its traditional, statist, and libertarian variants.

POLI 5304. Political Liberalism and its Critics. 3 Credit Hours.

Explore the philosophical assumptions and implications of liberalism, and examine its internal consistency and the extent to which it withstands challenges from competing systems of political thought.

POLI 5305. American Politics. 3 Credit Hours.

Examine basic approaches to the study of American Politics, including major works and recent research on this topic.

POLI 5306. Comparative Politics. 3 Credit Hours.

Examine basic approaches, major works, and recent research on the study of comparative politics and government.

POLI 5307. International Relations. 3 Credit Hours.

Examine basic approaches to the study of the politics of international relations, including major works and recent research on the topic.

POLI 5309. Ethics of Public Service. 3 Credit Hours.

Course utilizes ethical theory to provide perspectives on the role of public administrators. While focusing on the dilemma between democratic responsiveness and apolitical bureaucratic autonomy, issues also include deliberation, corruption, and whistleblowing.

POLI 5315. Foreign Policy. 3 Credit Hours.

Learn foreign policy decision-making. Understand how decisions are made, their consequences, and their ethical implications, with special emphasis on the foreign policy decisions of the United States.

POLI 5316. Conflict Studies. 3 Credit Hours.

Study the causes of international and civil conflict, historical changes in the nature of war, and predictions of future armed conflicts.

POLI 5317. Peace Studies. 3 Credit Hours.

Study the causes of peace, covering bargaining and war termination, social conflict resolution, international cooperation, and the ethics of peace.

POLI 5318. Terrorism Studies. 3 Credit Hours.

Study the causes of terrorism and other forms of political violence, with particular emphasis on measures of prevention and counter-terrorism.

POLI 5321. Civil Wars. 3 Credit Hours.

Examine the onset, evolution, and termination of civil wars. Particular emphasis is given to the role that outside actors play in civil wars, including foreign military intervention.

POLI 5330. Theories of Public Management. 3 Credit Hours.

Apply theories of public administration, and study the problems of administrative management in public organizations, and the use of law for administrative decision-making.

POLI 5350. Political Forecasting. 3 Credit Hours.

Research and analyze real-world political phenomena and problems. Learn and use different approaches to political forecasting, with a focus on formal models of politics.

POLI 5352. General Wars in World History. 3 Credit Hours.

Assess theories of war between major powers. Attention is given to structural, economic, and military factors that contribute to world wars, as well as the prospects for a Third World War.

POLI 5355. International Relations of the Middle East. 3 Credit Hours.
Examine the international politics of the Middle East, with particular emphasis on Israel and its regional rivals.

POLI 5360. Political Culture and Public Policy. 3 Credit Hours.
Study the political culture as it forms and is formed by public policy, including the culture of environmental policy, bureaucratic policy, and foreign policy.

POLI 5361. Politics of Education. 3 Credit Hours.
Study the relationship between politics and education in America, including both K-12 and post-secondary systems.

POLI 5362. Environmental Policy. 3 Credit Hours.
Study the politics of the natural environment with emphasis on the role of government in environmental protection.

POLI 5365. Politics of Literature. 3 Credit Hours.
This graduate seminar examines the politics of literature through a single author or genre as a method of introducing and critically evaluating normative political theory. Special attention is paid to the political uses of genre conventions and the political power of shared myths. POLI 5365 may be repeated once for credit when the author/genre covered differs.

POLI 5388. Problems. 1-3 Credit Hours.
Explore selected topics in Political Science. Independent reading, research, discussion, under supervision of senior professor.

POLI 5389. Special Topics in Political Science. 3 Credit Hours.
Examine selected topics related to political science. This course may be repeated when topics vary, for additional course credit.

POLI 5391. Political Science Practicum. 3 Credit Hours.
Gain professional experience in school administration, counseling, supervision, college or public school teaching, or other public service professions. May be repeated once for credit. Field experience fee: \$75.

POLI 5398. Political Science Thesis. 3 Credit Hours.
Scheduled when student is ready to begin thesis. No credit until thesis is accepted.

Public Administration (PADM)

PADM 5301. Public Administration Theory and Practice. 3 Credit Hours.
This course will serve as an introduction to the field of public administration. In this course we will explore the key literature on public administration as a practice, the history of the field, as well as current real world issues that are impacting public administration. Particular emphasis will be on the distinctive aspects of public sector organizations and managerial strategies to promote organizational effectiveness and change in these complex environments.

PADM 5302. Public Policy Processes. 3 Credit Hours.
This course provides an examination of the policy-making environment. Students will evaluate agenda setting, policy formation, the role of actors within the process, and implementation.

PADM 5304. Public and Administrative Law. 3 Credit Hours.
Review of Constitutional law cases dealing with separation of powers, federalism, civil liberties, and civil rights. Particular focus on administrative law including analysis of rule-making and adjudication, administrative due process, and judicial review.

PADM 5305. Public Budgeting and Management. 3 Credit Hours.
This course focuses on models associated with descriptive and prescriptive budgeting research. A main focus will be on the application of macroeconomic theory to public finance, with emphasis on capital budgeting, taxation, user charges, debt administration, cash management, and investment for small governments.

Psychology (PSYC)

PSYC 3100. Psychology Major Seminar. 1 Credit Hour.
Learn skills to prepare for success in the psychology major. Students will develop strategies to promote academic success, utilize available resources at TAMUCT, and get acquainted with peers, instructors, and the psychology major.

PSYC 3301. Psychology of Learning. 3 Credit Hours.
Investigate major theoretical approaches, concepts and principles, and experimental methods of learning. Prerequisite(s): PSYC 2301 or permission of department chair.

PSYC 3302. Health Psychology. 3 Credit Hours.
Apply psychology principles and techniques to the fields of health and medicine, including emotional, behavioral, cognitive, social, and multidisciplinary factors. Examine the effects of illness and injury on behavior. Prerequisite(s): PSYC 2301.

PSYC 3303. Educational Psychology. 3 Credit Hours.
Apply psychological theories and principles to teaching and learning. Learn theories of human development, learning, and motivation, and how these impact the processes of teaching and learning. Analyze the impact of cultural diversity on the learning process and standardized testing. Students seeking teacher certification must be admitted to the Teacher Education Program. Prerequisite(s): PSYC 2301 or permission of department chair.

PSYC 3305. Human Cognitive Processes. 3 Credit Hours.
Study human cognition and information processing, including perception, attention, memory, reasoning, and problem solving. Explore experimental methods and current theories of human cognition. Prerequisite(s): PSYC 2301 or permission of department chair.

PSYC 3307. Human Lifespan. 3 Credit Hours.
Explore development from conception through adulthood with emphasis on social adaptation of individuals and roles in families, groups, and communities. Study cognitive, social, personal and biological factors of the stages of development.

PSYC 3309. Writing in Psychology. 3 Credit Hours.
(WI) Examine advanced technical communication in psychology. Study and use the current edition of the Publication Manual of the American Psychological Association for formal research reports, literature reviews, grant proposals, and professional articles. Learn to write professional psychological reports. Prerequisite(s): PSYC 2301, ENGL 1301, and ENGL 1302, or permission of Departmental Chair.

PSYC 3310. Introduction to Psychological Disorders. 3 Credit Hours.
Study an overview of the history, causes, and treatments of psychological disorders and maladaptive behavior. Learn how psychological, social, and physiological factors relate to the development of behavior associated with distress, dysfunction, and deviance. Prerequisite(s): PSYC 2301 and PSYC 3309 or PSYC 3409 or permission of Department Chair.

PSYC 3311. Behavior Analysis and Behavior Management. 3 Credit Hours.

Examine the basic principles and methods of behavior analysis and behavior management techniques. Study systematic review of behavioral and cognitive-behavioral methodologies for dealing with human problems such as disruptive behavior, personal adjustment difficulties, behavioral deficits, phobias and fears, developmental disorders, stress and maladaptive behavior in a variety of settings. Prerequisite(s): PSYC 2301 or permission of department chair.

PSYC 3312. Biological Foundations of Behavior. 3 Credit Hours.

Study biological basis of behavior. Learn in-depth examination of physical structure of the human body and the role of chemical and electrical operations within it. Emphasis will be placed on the developmental, cognitive, affective, and behavioral effects of such operations, and recent research will be reviewed. Prerequisite(s): PSYC 2301, 6 hours of BIOL lab science, and PSYC 3309 or PSYC 3409, or permission of department chair.

PSYC 3315. Human Sexuality. 3 Credit Hours.

Study psychology of sexual behavior, exploring the field's diversity, controversy, and current research, in a non-judgmental way. Explores historical, biological, psychological, and relevant social aspects of human sexuality. Prerequisite(s): PSY 2301.

PSYC 3318. Psychology of Gender. 3 Credit Hours.

Consideration of physiological, developmental, social, and cultural origins of sex differences, gender identity, and behavior. Topics may include gender differences and similarities in aggression, sexual behavior, personality, intellectual activity, psychopathology, the development of gender and gender roles, sexism and discrimination, gender stereotypes, sexual orientation and sexuality, and biological variation in sex and gender. Prerequisite(s): PSYC 2301 or permission of department chair.

PSYC 3330. Statistics for the Behavioral Science. 3 Credit Hours.

Study measures of central tendency, variability, and correlation. Analyze applications of statistical inference to research in Psychology, reliability and validity of psychological tests and measurement, analysis of variance, multiple analysis of variance, and regression. Prerequisite(s): PSYC 2301 and MATH 1314 or MATH 1342 or permission of department chair.

PSYC 3350. Personality. 3 Credit Hours.

Analyze personality, the unique and relatively stable patterns of behavior, thoughts, and feelings that make individual human beings. Learn the different theoretical approaches - psychodynamic, cognitive, behavioral, humanistic, and existential – as they relate to personality and personality development. Prerequisite(s): PSYC 2301 or permission of department chair.

PSYC 3360. Sport Psychology. 3 Credit Hours.

Explore theories and research related to sports and exercise behavior. Study the history of sport psychology, behavioral principles, anxiety, motivation, leadership, group dynamics, gender, and personality. Analyze related principles to exercise and sport performance. Prerequisite(s): PSYC 2301 or permission of department chair.

PSYC 3409. Writing in Psychology. 4 Credit Hours.

(WI) Examine and interpret advanced technical communication in psychology. Read and analyze psychology publications, formal research reports, and other professional writing in psychology. Apply formatting and ethical guidelines from the American Psychological Association Publication Manual to write a literature review and provide peer reviews of others' work. Prerequisite(s): PSYC 2301; two ENGL composition courses such as ENGL 1301, ENGL 1302, ENGL 2311 or equivalent; or permission of Department Chair.

PSYC 3430. Statistics for the Behavioral Sciences. 4 Credit Hours.

Study measures of central tendency, variability, and correlation. Analyze applications of statistical inference to research in psychology, reliability and validity of psychological tests and measurement, analysis of variance, multiple analysis of variance, and regression. Use statistical software to organize and analyze data and write APA-style Results sections based on the raw results of statistical analyses. Prerequisite(s): PSYC 2301 and MATH 1314 or MATH 1342 or PSYC 2317 or permission of department chair.

PSYC 4301. Psychological Assessment. 3 Credit Hours.

Explore principles of psychological testing. Study uses and critical evaluation of tests, achievements, intelligence, aptitude, and personalities. Prerequisite(s): PSYC 2301, PSYC 3309 or PSYC 3409, and PSYC 3330 or PSYC 3430, or permission of department chair.

PSYC 4302. Evolutionary Perspectives in Psychology. 3 Credit Hours.

Explore evolutionary perspectives on social, cognitive and developmental processes in humans. Comparisons between humans and other species and among human cultures will be included. Prerequisite(s): PSYC 2301, 6 hours of BIOL science with lab or permission of department chair.

PSYC 4303. Animal Behavior. 3 Credit Hours.

Study animal behavior research from a psychological perspective. Examine the development and display of behaviors to include subject samples ranging from insects to humans conducted in natural, quasi-experimental, and experimental studies. Prerequisite(s): PSYC 2301, 6 hours of BIOL science with lab, or permission of department chair.

PSYC 4305. Social Psychology. 3 Credit Hours.

Learn theory and phenomena of social psychology. Study the effect of social variables upon the behavior of individuals. Examine socialization, language and communication, prejudice, social attitudes, attitude change, aggression, prosocial behavior, and group behavior. Prerequisite(s): PSYC 2301 and PSYC 3309 or PSYC 3409, or permission of department chair.

PSYC 4310. Industrial and Organizational Psychology. 3 Credit Hours.

Study basic theories and practices of Industrial/Organizational psychology including selection testing, job analysis, performance appraisal training, employment motivation, job satisfaction, leadership and group processes within organizations. Prerequisite(s): PSYC 2301 or permission of department chair.

PSYC 4315. Fundamentals of Program Evaluation. 3 Credit Hours.

Study fundamentals of program evaluation methods used in the fields of education and human service. Learn theory, methodology, utilization of information, standards of practice and ethics. Prerequisite(s): PSYC 2301, PSYC 3309 or PSYC 3409, and MATH 1342 or PSYC 3330 or PSYC 3430; or permission of instructor.

PSYC 4320. History of Psychology. 3 Credit Hours.

(WI) Analyze historical prescientific psychology in philosophy and physiology through the period of the psychological schools of thought. Prerequisite(s): PSYC 2314 or PSYC 3307, PSYC 3309 or 3409, PSYC 3330 or 3430 and completion of or concurrent enrollment in PSYC 3312, PSYC 4305; or permission of department chair.

PSYC 4325. Motivation. 3 Credit Hours.

Learn synthesis of theories of motivation with practical applications of motivating people, such as students or business employees. Examine historical and recent developments and their relationship to behavioral research, including concepts such as goals, work quality, work environment, and the use of rewards and other incentives. Prerequisite(s): PSY 2301.

PSYC 4332. Psychopharmacology. 3 Credit Hours.

Study neuroscientific basis of the effects of drugs on behavior. Emphasis will be placed on major antipsychotic, antianxiety, antidepressant drugs and their clinical use and side effects and drug abuse such as alcohol, marijuana, and cocaine. Prerequisite(s): PSYC 2301 and 6 hours of BIOL lab science or permission of department chair.

PSYC 4350. Forensic Psychology. 3 Credit Hours.

Study forensic psychology and its relation to criminal justice. Emphasis is on social and cognitive psychology aspects like eyewitness testimony and courtroom behavior. Analyze psychological aspects of the legal system such as juvenile justice, competency to stand trial, and expert psychological testimony. Prerequisite(s): PSYC 2301.

PSYC 4384. Psychology Undergraduate Internship. 1-3 Credit Hours.

Explore supervised professional activities in psychology. Major emphasis is placed on the student's involvement in successful practices in the area of interest. Students must have the approval of the Department Chair to enroll in this course. Course is repeatable up to a maximum of 6 credit hours. Prerequisite(s): PSYC 3409.

PSYC 4388. Psychology Problems. 1-3 Credit Hours.

Study of various topics related to Psychology. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Entry into the course will be arranged by the department chair.

PSYC 4389. Special Topics in Psychology. 3 Credit Hours.

Examine different topics each semester with a focus on contemporary issues in psychology. This course may be repeated for credit as the topic changes.

PSYC 4435. Principle Research for Behavioral Sciences. 4 Credit Hours.

(WI) Study and apply various research designs used in the behavioral sciences. Review previous research, design a research study, write an Institutional Review Board protocol, and analyze data using statistical software. Students will write a research report in APA style. Prerequisite(s): PSYC 3309 or PSYC 3409, PSYC 3330 or PSYC 3430, and PSYC 3100.

PSYC 5090. Psychology Comprehensive Examination. 0 Credit Hours.

Study and take the psychology examination for Non-thesis students. Register for the comprehensive examination during final semester of graduate coursework, or upon permission of advisor. All comprehensive examinations will be written, but an oral component may also be required. A maximum of three attempts will be allowed. Thesis student do not take this examination.

PSYC 5198. Psychology Thesis. 1-6 Credit Hours.

Independent research course in which a student proposes and completes an original, quantitative research project in conjunction with three graduate faculty members who serve on the thesis committee. Scheduled when the student is ready to begin thesis. No credit awarded until proposal and thesis are approved, respectively. Six hours of thesis credit is required. Prerequisite(s): PSYC 5300 and PSYC 5301 and successful completion of 12 additional credit hours in the degree plan and, permission of the Chair of the thesis committee or department chair.

PSYC 5300. Behavioral Statistics. 3 Credit Hours.

Study descriptive statistics with inferential statistics, correlation, one-way and two way analysis of variance, regression analysis and experimental design. Use computer software with emphasis on experience with SPSS.

PSYC 5301. Research Methods. 3 Credit Hours.

Study scientific method of research, types of research and research design. Review, analyze and interpret research findings in major field and develop a research project with the assistance of their instructor. Prerequisite(s): PSYC 5300 or equivalent graduate statistics course.

PSYC 5302. Social Psychological Processes. 3 Credit Hours.

Examine the individual in a social and cultural context. Learn the behavior of groups, the roles of individuals within groups, and the influence of groups on an individual's perceptions, attitudes, emotions, and behavior. Study major theories and supporting research.

PSYC 5303. Theories of Learning. 3 Credit Hours.

Study major theories of learning, factors which influence the process of learning, and application of these theories and processes to general and special populations. Prerequisite(s): Admission to Graduate School or permission of department chair.

PSYC 5304. Human Development. 3 Credit Hours.

Study the development of human beings from conception to death. Analyze research and theory into physical, cognitive, social, and personality development in each of the different age groups: prenatal, infancy, childhood, adolescence, and adulthood.

PSYC 5305. Research-Based Teaching and Learning. 3 Credit Hours.

Review up-to-date empirical research on learning and teaching in a variety of contexts. Apply concepts to the creation of an independent research proposal. Prerequisite(s): Admission to Graduate School or permission of department chair.

PSYC 5306. Applied Psychology. 3 Credit Hours.

Learn to use psychological science to address problems in contexts that are meaningful to you! This course surveys the foundations of applied psychology and its use in a variety of contexts including education, industry and organizations, health, marketing, forensics, and coaching. Students will explore career alternatives via first-hand research in a self-selected area.

PSYC 5310. Special Education Law. 3 Credit Hours.

Examine the legal framework for special education in the United States. Understand federal constitutional provisions, federal and state statutes, and federal and state judicial decisions affecting special education, including the rules and regulations for the various federal and state agencies. Prerequisite(s): PSYC 5360 Foundations of School Psychology.

PSYC 5311. Culture, Minority and Gender Issues. 3 Credit Hours.

Study interaction of social/cultural groups in America, problems of minorities and ethnic groups, problems related to gender and age, problems within family systems and contemporary sources of positive change.

PSYC 5313. Crisis Intervention and Management Individual and Family. 3 Credit Hours.

Examine dynamics and treatment of situational crises in various settings. Learn theories and approaches to crisis intervention and management. Prerequisite(s): COUN 5350 or permission of department chair.

PSYC 5314. Assessment Intelligence and Achievement. 3 Credit Hours.

Study the selection, administration, and interpretation of selected tests used in the individual measurement of intelligence. Materials Fee for test kits \$75. Prerequisite(s): COUN/PSYC 5358 and PSYC 5381, or permission of department chair.

PSYC 5315. Physiological Psychology. 3 Credit Hours.

Examine biological basis of behavior with an emphasis on the structure and biochemistry of the human nervous system. Explore interactive relationships between biological processes, psychopharmacology, genetics, neurological disorders, normal growth and maturation, perception, memory, emotion, stress, mental disorders, consciousness, and communication. Study of contemporary theories and research are investigated and critiqued.

PSYC 5316. Advanced Quantitative Methods and Experimental Design. 3 Credit Hours.

Learn statistical techniques to analyze quantitative data resulting from experimental research designs. Engage in a continuation of PSYC 5300 and PSYC 5301 and students are required to demonstrate proficiency in SPSS for data analysis. Review One-Way and Two-Factor ANOVA. Emphasis on ANCOVA, MANOVA, MANCOVA, multiple regression, logistic regression, data reduction techniques (factor analysis and principal components analysis), and non-parametric analyses appropriate for two- and multi-group designs. Explore the integration of multivariate and advanced statistical design with applicable research paradigms. Prerequisite(s): PSYC 5300 and PSYC 5301.

PSYC 5317. Instructional Design and Assessment of Student Learning. 3 Credit Hours.

Develop skills to improve learning from curriculum design through planning instructional activities and measuring outcomes. This course surveys the foundations of assessment including writing learning outcomes, designing and mapping curriculum, creating assignments, and developing aligned assessments that demonstrate learning. The focus on aligning assessment type with expectations for learning informs evidence-based decision making for continuous improvement.

PSYC 5320. History and Systems. 3 Credit Hours.

Analyze the historical development of the science of psychology from early philosophical theories through the establishment of psychology as a science to modern theoretical positions.

PSYC 5321. Evolutionary Psychology. 3 Credit Hours.

Evaluate current theories of adaptation with a large focus on how adaptation has influenced social, cognitive and developmental processes in humans. Review and discuss evidence from cross-cultural and cross species studies.

PSYC 5322. Psychometrics. 3 Credit Hours.

Study systematic treatment of the logic of measurement, including scaling models, validity, variance and covariance, reliability, theories of measurement error and test construction. Prerequisite(s): Admission to Graduate School or permission of department chair.

PSYC 5353. Theories of Counseling. 3 Credit Hours.

Investigate personality and counseling theories with an emphasis on how theories influence practice. Special emphasis on applications to various populations, role play, other experiential methods, and related ethical concerns. Prerequisite(s): COUN 5350 or PSYC 5360 or approval of the Department Chair.

PSYC 5358. Counseling Perspective on Psychopathology. 3 Credit Hours.

Explore psychopathology that includes the history of abnormal behavior and an in-depth study of the specific diagnostic psychological disorders. Emphasis will be on classification systems currently used in clinical settings, treatment alternatives from a counseling perspective, and related ethical concerns. Students cannot receive credit for both PSYC 5358 and COUN 5358. Prerequisite(s): COUN 5350 or PSYC 5360 or approval of the Department Chair.

PSYC 5360. Foundations of School Psychology. 3 Credit Hours.

Study the foundations, professional standards, ethics, and laws related to the delivery of school psychological services. Prerequisite(s): admission to graduate school or permission of department chair.

PSYC 5380. Personality Social Assessment. 3 Credit Hours.

Gain instruction and supervision in the assessment of emotional, motivational, interpersonal, and attitudinal characteristics of children and adults. Learn the administration, scoring, and interpretation of many widely-used tests. Materials Fee for test kits \$75. Prerequisite(s): COUN 5358/PSYC 5358 and PSYC 5381, or permission of department chair.

PSYC 5381. Assessment and Evaluation Fundamentals. 3 Credit Hours.

Examine nature and development of standardized tests, with emphasis on ethical standards, psychometric theory, test standards, and test construction. Learn selection criteria and utilization of standardized or other instruments in various environments are considered. Explore evaluations and critiques of published tests and experiential exposure to different types of psychological tests. Prerequisite(s): Admission to the Graduate School.

PSYC 5382. Behavior Management and Therapy. 3 Credit Hours.

Examine basic theories of human learning, major approaches to behavior management and therapy and principles of applied behavior analysis. Learn formal treatment planning application and evaluation of programs for management of specific behavioral/psychological problems. Study case reviews and practice in individual interventions.

PSYC 5383. Consultation and Supervision. 3 Credit Hours.

Study application of psychological principles of consultation and supervision in selected settings. Emphasis is on analysis of client and consultee/supervisor behaviors, individual and group communications, program evaluation and possible intervention options in selected environments. Prerequisite(s): COUN 5350 or PSYC 5360, and COUN 5353, or permission of department chair.

PSYC 5384. Psychology Internship I. 3 Credit Hours.

Explore supervised professional activities in psychology. Major emphasis is placed on the student's involvement in successful practices in the area of interest. Students must have met all academic and professional standards of practice before placement. Lab experiences are included. Prerequisite(s): Completion of all course work required by the degree and application for internship. Field experience fee - \$75.

PSYC 5385. Psychology Internship II. 3 Credit Hours.

Explore professional activities in psychology in the student's area of interest. Major emphasis is placed on the integration of theoretical and conceptual principles, as well as professional and personal skill development. Prerequisite(s): PSYC 5383 and application for internship. Field experience fee - \$75.

PSYC 5388. Psychology Problems. 1-3 Credit Hours.

Study selected problems in psychology. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Prerequisite(s): graduate standing and permission of department chair.

PSYC 5389. Special Topics in Psychology. 1-3 Credit Hours.

Examine different topics each semester with a focus on contemporary issues in psychology. This course may be repeated for credit as the topic changes.

PSYC 5391. School Psychology Practicum. 3 Credit Hours.

Explore supervised experience in settings such as marriage and family, mental health, and/or counseling and guidance placements outside the University. The field experience will consist of 150 clock hours with 100 client contact hours. Prerequisite(s): COUN 5350, COUN 5353, COUN 5354, COUN 5357 and (COUN 5358 or COUN 5351), and PSYC 5381 for LPC and LPA; COUN 5350, COUN 5309, COUN 5353, COUN 5356 and COUN 5357 for LMFT; PSYC 5360, PSYC 5381, PSYC 5382, COUN 5353, COUN 5357 and COUN 5358 for LSSP; 3.0 GPA; and permission of department chair. Field experience fee - \$75.

Reading (READ)

READ 3301. Children's Literature in the Elementary Classroom. 3 Credit Hours.

Study literature for children focusing on the use of classic and contemporary texts to promote interest, motivation, and critical reading skills for self-selected reading in the elementary student. Learn to use texts in the elementary classroom to emphasize literary genre, text structures, and literary devices as tools for making connections and meaning. Prerequisite(s): Credit will not be granted for READ 3301 and ENGL 3350/ENGL 3306.

READ 3310. Foundations of Literacy. 3 Credit Hours.

(WI) This course provides an overview of foundational concepts, principles, and best practices related to the science of teaching reading. Includes a survey of the cognitive, socio-cultural, linguistic, and motivational influences on literacy and language development. Presents the key scientifically-based reading research foundations needed to understand how reading develops from early childhood through adolescence. Prerequisite(s): Admission to teacher education block 1.

READ 3311. Literacy Development I. 3 Credit Hours.

This course addresses the theory and practice of teaching early reading. Takes into consideration theories of learning, understandings of students and their needs, and the backgrounds and interests of individual students. Study characteristics of typical and atypical reading development in the emergent/early learner, explore materials, procedures, assessments and instructional methods. Prerequisite(s): Completion of teacher education block 1 with a minimum 2.75 GPA.

READ 3320. Fundamentals of Teaching Reading. 3 Credit Hours.

(WI) This course focuses on research-based competencies essential for effective literacy instruction. Surveys characteristics of normal reading development in the elementary through middle school learner; explores materials, procedures, assessment and instructional methods considered effective in teaching oral language, writing, strategy building for comprehension, vocabulary, and word identification.

READ 3330. Reading II: Assessment, Instruction and Reader Development. 3 Credit Hours.

(WI) Study characteristics of the transitional and fluent literacy learner, methods of assessment and instruction for strategy building, comprehension, vocabulary, word identification, and TEKS/TAKS. Examine normal reading development, reading difficulties, strategies for assessing/addressing reading differences including diverse learner reading processes and development of literacy in English or ELL. Prerequisite(s): READ 3311 and Admission to the Teacher Education Program. Concurrent enrollment in EDUC 3330.

READ 3331. Adolescent Literacy for the Young Adult. 3 Credit Hours.

Study literature for adolescents focusing on the use of classic and contemporary texts to promote interest, motivation, and critical reading skills for self-selected reading in the secondary student. Learn to use texts in the secondary classroom to emphasize literary genre, text structures, and literary devices as tools for making connections and meaning.

READ 3335. Content Area Reading. 3 Credit Hours.

(WI) Examine factors that influence learning from content text and study specific instructional strategies which promote comprehension, vocabulary development, effective study strategies, and test-taking skills. Study ways to modify text for diverse learners and the principles of research-based reading instruction. Field experience required.

READ 3340. Foundations of Secondary Reading and Writing. 3 Credit Hours.

(WI) This course studies the typical and atypical developmental stages of reading and writing for secondary students. It focuses on instructional strategies to meet the needs of diverse students. This course includes a field experience. Prerequisite(s): Must be admitted into EPP.

READ 4304. Reading and Writing Across the Curriculum. 3 Credit Hours.

(WI) Study theory and instructional strategies for teaching the writing process in elementary and middle schools. Learn stages of the writing process, issues at the different grade levels, teaching with mini-lessons, early literacy, spelling, handwriting, developing listening skills, process writing, and the use of children's literature to teach writing. Prerequisite(s): READ 3330 and EDUC 3330, and concurrent enrollment in READ 4305 and EDUC 4304 or EDUC 4330.

READ 4305. Implement Classroom Reading Instruction. 3 Credit Hours.

Study state and national reading initiatives, approaches to teaching reading, procedures for organizing the elementary and middle school classrooms for reading instruction, research on effective reading-writing instruction, and roles of school personnel and parents in the school reading program. Prerequisite(s): READ 3330 and EDUC 3330, and concurrent enrollment in READ 4304 and EDUC 4304 or EDUC 4330, or permission of department chair.

READ 4312. Literacy Development II. 3 Credit Hours.

(WI) A field-based course surveying characteristics of the transitional/independent literacy learner, methods of instruction for writing, strategy building, comprehension, vocabulary, word identification, utilizing the Texas Essential Knowledge and Skills. Examines typical/atypical reading development and strategies for assessing/addressing reading differences in individual learners. Explores structures and features of expository text including examination of supports and challenges within the text. Prerequisite(s): Admission to teacher education program.

READ 4313. Analysis and Response. 3 Credit Hours.

(WI) This course examines the foundational concepts, principles and best practices relating to assessment, utilizing a variety of evaluation and assessment tools. Students will analyze assessment data related to literacy development in order to plan appropriate instruction for typical/atypical learners. In-depth analyses are prepared to communicate student literacy outcomes to various audiences. Prerequisite(s): Admission to teacher education program.

READ 4340. The English Language Arts and Reading Curriculum. 3 Credit Hours.

This course examines instructional methods and teaching aids for the teaching of English Language Arts and Reading in middle and secondary grades. Contemporary concerns relevant to curriculum development and the components of language, composition, and literature will be stressed. Prerequisite(s): Must be admitted into EPP.

READ 5335. Literacy in the Content Areas. 3 Credit Hours.

Literacy in the Content Areas offers secondary teachers an understanding of language and the literacy process as it applies to teaching in secondary schools. The course emphasizes reading and writing in content areas, as well as instructional strategies to support students' disciplinary literacy development. It focuses on ways that reading, writing, speaking, and listening are developed and used in learning discipline-specific curriculum, including adaptations for culturally diverse and exceptional learners.

READ 5370. Literacy Development. 3 Credit Hours.

Analyze models of the reading and writing processes. Emphasis on characteristics of emergent, early, transitional and fluent literacy, instructional strategies in reading and writing, phonics instruction and strategies for teaching English language learners, and the essential knowledge and skills in the language arts curriculum.

READ 5371. Structured Literacy, and Intervention Methods. 3 Credit Hours.

Study research in literacy development from early childhood through adulthood. Learn the principles and practices of evidence-based literacy intervention for students with dyslexia and other reading disabilities, including effective intervention in the five pillars of reading. Create and implement structured literacy lessons as well as administer dyslexia assessments. Prerequisite(s): READ 5377.

READ 5372. Language Arts. 3 Credit Hours.

Examine research and strategies for implementing the reading/writing process in classrooms. Explore integrated curriculum, the use of children's literature, classroom management and organization, evaluation, working with diverse learners, and developing support networks. Prerequisite(s): READ 5373 or 9 hours of undergraduate READ courses or permission of department chair.

READ 5373. Foundations of Reading. 3 Credit Hours.

Examine theoretical models of the reading process, historical perspectives on reading instruction, and language learning. Develop an understanding of the construction of reading theory and its relationship to instructional practices. Prerequisite(s): Elementary, secondary, or all-level certification or permission of department chair.

READ 5374. Reading Resources and Materials. 3 Credit Hours.

Study print and non-print materials including content-area textbooks, trade books, and computer software. Evaluate materials and application of reading principles to instruction in content areas. Prerequisite(s): READ 5373 or 9 hours of undergraduate READ courses or permission of department chair.

READ 5375. Reading Research and Assessment. 3 Credit Hours.

Examine methods and techniques employed in reading research and assessment. Review research and the development, implementation, and dissemination of classroom research. Explore the application of appropriate diagnostic and correctional procedures for elementary, secondary, and adult learners having difficulty reading. Prerequisite(s): READ 5373 or 9 hours of undergraduate READ courses or permission of department chair.

READ 5376. Organization and Administration of Reading Programs. 3 Credit Hours.

Study state laws, trends and issues related to the administration of reading programs. Examine instructional issues and reading programs for pre-K through adult learners, censorship issues, textbook/test adoption procedures, roles and responsibilities in the reading program, staff development, and change strategies. Prerequisite(s): READ 5373 or 9 hours of undergraduate READ courses or permission of department chair. Certification Fee - \$150.

READ 5377. Literacy Instruction and Assessment. 3 Credit Hours.

This course is designed to prepare pre-service teachers in the application of a balanced, integrated, and interactive perspective to teaching literacy in grades K through 8. Teacher candidates will learn to employ a multidisciplinary approach to teach literacy concepts and strategies across the curriculum to accommodate all learners in culturally responsive classrooms. Emphasis will be placed on an understanding of the reading process; the content of reading instruction; and scientifically based reading research, methods, and materials used in balanced reading instruction and assessment. Prerequisite(s): READ 5370.

READ 5378. Reading Science and Reading Disabilities. 3 Credit Hours.

Study scientifically based reading research and how it has informed the understanding of dyslexia, including findings from the National Reading Panel. Understand the characteristics of individuals with dyslexia and other learning disabilities from early childhood through adulthood. Learn current issues as they relate to definition, assessment, eligibility, diversity, service delivery, and impact on family.

READ 5388. Reading Problems. 1-3 Credit Hours.

Study of selected problems in reading. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Prerequisite(s): Permission of department chair.

READ 5391. Reading Practicum. 3 Credit Hours.

Apply knowledge gained in previous Reading Specialist certification courses. Practicum candidates will be directly involved in providing 180 clock hours of reading services to students in a local public or private school setting, and will document expertise and experience in all four Standards. Prerequisite(s): READ 5373, READ 5374, READ 5375, READ 5376 and ENGL 5321; two years of creditable classroom teaching experience. Field experience fee - \$75.

Religious Studies (RELS)

RELS 3300. Introduction to Religious Studies. 3 Credit Hours.

Examine religious phenomena from a non-confessional, interdisciplinary academic perspective. Explore the concept of religion as a component of culture in a postmodern, diversified, global community. Survey major religious traditions, and trends throughout the history of the discipline.

RELS 3301. Classical Greek Mythology. 3 Credit Hours.

Study classical myths and legends pertaining to the Greek pantheon, heroes, and other supernatural beings and events. Evaluate samples of English literature alluding to classical Greek mythology, and understand the cultural significance of myth within classical Greek society.

RELS 3302. Dead Sea Scrolls. 3 Credit Hours.

Explore the archaeological discovery of the Dead Sea Scrolls. Examine and interpret content of selected manuscripts. Evaluate the history of controversies surrounding Scrolls management and presentation to the academic world.

RELS 3303. Hebrew Scriptures. 3 Credit Hours.

Examine the canonical Hebrew scriptures in the light of present-day scholarship. Read translated scriptural passages to evaluate sources, historical and cultural milieus, and forms of modern criticism. Reading competency in the Hebrew language is not required.

RELS 3304. World Religions. 3 Credit Hours.

Study the philosophical, ethical, and social dimensions of the religions of the world. Special emphasis on the major world religions, but lesser known religions will be explored to gain a broad view of the diversity of religious experience and tradition.

RELS 3305. Wicca and Neo-Paganism. 3 Credit Hours.

A critical examination of Wicca and Neo-pagan groups in the US. Explores the history of such groups and exposes the student to academic research in this area.

RELS 3329. Church and State. 3 Credit Hours.

Surveys church-state relations in U.S. history. Examines the role religion has played in American political life, culture, and society. This course is cross-listed with HIST 3329; only one may be taken for credit.

RELS 3355. Religion and Politics. 3 Credit Hours.

Explores the historic development of church-state relations in the United States, the evolution of church-state constitutional law, and the impact of this history and law on the current political environment. Special emphasis placed on the role played by religion in political campaigns, local politics, and interest group activities. This course is cross-listed with POLI 3355; only one may be taken for credit.

RELS 4300. Prophets of Ancient Israel. 3 Credit Hours.

Examine prophet types in light of their historical and cultural milieus. Understand the differences between the eponymous ancestors, leaders, wonder-workers, and literary prophets of Ancient Israel, and evaluate the relationship between prophecy, prophets, and scribal culture in the ancient Near East.

RELS 4310. Myth and Ritual. 3 Credit Hours.

Examine the religious beliefs and practices of small-scale societies based upon ethnographic literature. Special emphasis on altered states, shamanism, bewitching, and religious practitioners. Maybe crosslisted with ANTH 4310. Only one may be taken for credit.

RELS 4312. Psychology of Religion. 3 Credit Hours.

Discover the major issues, theories, and psychological approaches to the study of religion, and address the practice of pastoral counseling. Explore the formation of meaning systems, motivation for behaviors, and psychological accounts for religious impulses and phenomena. Prerequisite(s): None.

RELS 4315. Philosophy of Religion. 3 Credit Hours.

Examine religious phenomena, and concepts of God, miracles, claims of religion, the problem of evil, and religious ethics. Study and evaluate the relationship of religion and philosophy, and the place of philosophy within the religious experience. Prerequisite(s): None.

RELS 4320. Religious Terrorism. 3 Credit Hours.

Examine the religious motivations, support, and tactics behind the phenomena of domestic and foreign terrorism. Prerequisite(s): None.

RELS 4330. Religions of the Middle East. 3 Credit Hours.

Examine the history, beliefs, practices, and conflicts behind the major religious traditions of Judaism, Christianity, and Islam. Prerequisite(s): None.

RELS 4389. Special Topics in Religion. 3 Credit Hours.

Examine selected topics within religious studies. May be repeated for credit when topics vary. Prerequisite(s): None.

RELS 5300. Introduction to Religious Studies. 3 Credit Hours.

Examine religion as an aspect of culture in a postmodern, diversified, global community. Evaluate the history and concepts used in the academic study of religion, and the major religious traditions of the world. Prerequisite(s): None.

RELS 5304. Sociology of Religion. 3 Credit Hours.

Examine religion and religious phenomena from the perspectives, theories, and methods of sociology. Evaluate the major works of classical theorists such as Durkheim, Weber, and Marx, and recent theorists such as Berger and Stark.

RELS 5310. Anthropology of Religion. 3 Credit Hours.

Apply anthropology to religion through a study of ethnographies, and literature pertaining to the study of religious phenomena. Explore myth and ritual, altered states, healing and bewitching, and the roles of religious practitioners. This course is cross-listed with ANTH 5310, and only one may be taken for credit.

RELS 5312. Psychology of Religion. 3 Credit Hours.

Examine major issues and theories in the psychological approach to the study of religious phenomena. Analyze the literature of theorists, the contributions of neuroscience, evolutionary psychology, consciousness research, and regressive hypnotherapy in the study of religion.

RELS 5315. Philosophy of Religion. 3 Credit Hours.

Examine religious phenomena, and concepts of God, miracles, claims of religion, the problem of evil, and religious ethics. Study and evaluate the relationship of religion and philosophy, and the place of philosophy within the religious experience.

RELS 5320. Religious Terrorism. 3 Credit Hours.

Examines the religious motivations, support, and tactics behind the phenomena of domestic and foreign terrorism. Analyze case studies and histories of specific terrorist organizations, justifications for violence, and terrorist targets. Maybe crosslisted with HLS 5320. Only one may be taken for credit.

RELS 5329. Church and State. 3 Credit Hours.

Explores the interaction of religion and political life in the US, beginning with the First Great Awakening and early life under the new Constitution, through the Second Great Awakening and up to the present day. Readings will be primary sources in American religious and political thought.

RELS 5355. Religion and Politics. 3 Credit Hours.

Provides an overview of the influence of religion on politics in the US. Examines the relationship between religion and political mobilization, interest group politics, public opinion, race and ethnicity, foreign policy, and elections.

RELS 5389. Special Topics in Religion. 3 Credit Hours.

Examine selected topics within religious studies. Students may enroll for additional credit hours when topics vary.

Social Science (SOSC)

SOSC 3300. Social Science Proseminar. 3 Credit Hours.

(WI) Learn professional communication, advanced writing expectations, and ethics in professional writing in preparation to pursue advanced studies in the social sciences.

Social Work (SOWK)

SOWK 3300. Introduction to Social Work. 3 Credit Hours.

Examine the profession of social work, its historical development, values, ethics, generalist practice, and various fields of practice. Prerequisite(s): None.

SOWK 3301. Methods and Skills of Social Work. 3 Credit Hours.

Study the Generalist Social Work Practice Model. Develop social work skills in the principles of conducting a helping interview, initial client contact, attending and listening, empathetic responses, exploration and elaboration, questioning, gaining cooperation, self-disclosure, and termination. Understand issues of problem-solving with diverse populations and persons from different cultural backgrounds, and examine ethical issues of helping relationships.

SOWK 3302. Social Welfare in the United States. 3 Credit Hours.

Study human services in the United States and how they have developed over time. Special Emphasis on services and programs directed at the most vulnerable populations in our society. Race, ethnicity, gender, and socioeconomic status are considered in an effort to understand the need for and eligibility for various human services and social welfare programs.

SOWK 3303. Social Work with Diverse Populations. 3 Credit Hours.

Examine theoretical, political, historical, cultural, and economic issues related to diverse populations. Special emphasis on social work practice with oppressed populations, societal forces that promote discriminatory and oppressive values, beliefs, and attitudes.

SOWK 3304. Human Behavior and Social Environment I. 3 Credit Hours.

Use systems theory as organizing perspective to examine the bio-psycho-social and spiritual factors influencing human development. Analyze cultural, socioeconomic, and structural factors affecting human functioning, and their relationship to and implications for social work practice.

SOWK 3305. Biological Foundations of Social Work Practice. 3 Credit Hours.

Explore issues related to human biological functioning as applied to social work practice. Emphasis on the functioning of the human body across the lifespan, healthy living and prevention of illness, and illness and disabilities (physical and mental) that social workers encounter in clients.

SOWK 3310. Human Behavior and Social Environment II. 3 Credit Hours.

Explore issues related human biological functioning as applied to social work practice. Emphasis on theories and knowledge about the range of social systems in which individuals live and the ways in which systems deter people from achieving well-being, including values and ethical issues related to bio-psycho-social theories. Prerequisite(s): SOWK 3304.

SOWK 3311. Generalist Practice I: Micro Systems. 3 Credit Hours.

Examine theories and methodologies needed for generalist social work practice with individuals and small groups. Evaluate the value base of the social work profession and basic practice concepts for understanding a variety of intervention models in diverse settings. Prerequisite(s): Admission to the Social Work Program and SOWK 3301.

SOWK 3315. Writing for Professional Social Work. 3 Credit Hours.

(WI) Social work is a field of practice that places heavy demands for professional-quality writing skills on its members. This course should help improve each students professional writing ability. Prerequisite(s): ENGL 1301.

SOWK 4300. Social Welfare Policy. 3 Credit Hours.

(WI) Study social welfare as society's response to the needs of individuals, groups, and communities. Examine the history of policy development reflecting society's changing values. Analyze policy to determine impact on various systems, including populations at risk, and explore the role of social policy in promoting social justice and social change. Prerequisite(s): SOWK 3302.

SOWK 4301. Social Work and Mental Health. 3 Credit Hours.

The course emphasizes the Generalist Practice of Social work in mental health in areas such as case management, assessment, treatments, and working in interdisciplinary teams. The current Diagnostic and Statistical Manual of Mental Disorders, to assess mental issues will be used. Prerequisite(s): SOWK 3300, SOWK 3304.

SOWK 4305. Rural Social Work. 3 Credit Hours.

The purpose of the course is to provide the student with an overview of social welfare services for rural communities and people. Topics covered include rural communities, rural culture and behavior, diversity, social welfare policy and services, professional values and ethics, history of rural social services, and professional practice with rural communities. Prerequisite(s): None.

SOWK 4311. Child Welfare. 3 Credit Hours.

Examine the history and practice of child welfare. Study programs and policies dedicated to child welfare, and learn the social work practice settings for the discipline.

SOWK 4320. Social Work Research Methods & Statistics. 3 Credit Hours.

Study basic principles and concepts of the scientific method and social science research as applied to social work. Learn descriptive and inferential statistical analysis and critical analysis of research, including quantitative and qualitative research designs, measurement, sampling. Students should have completed a statistics course before enrolling. Prerequisite(s): Statistics.

SOWK 4321. Writing for Social Work Research. 3 Credit Hours.

(WI) Apply social work knowledge to facilitate understanding and interpretation of research findings. Develop the evaluation and analysis process, and understand ethical issues in social science research. Explore evaluation of practice, critical evaluation of published research, and completion of a research proposal. Prerequisite(s): SOWK 4300 and SOWK 4320.

SOWK 4324. Generalist Practice II: Macro. 3 Credit Hours.

Study theory and practice of social change at organizational, community, society, and global levels. Examine methods of resource delivery and redistribution, and learn models of community organization, including community development, social action, and social planning. Prerequisite(s): SOWK 4300.

SOWK 4330. Generalist Practice III: Families and Groups. 3 Credit Hours.

This course uses a unifying social work generalist intervention framework to apply social work practice with family and group systems. The course integrates systems, strengths, person-in environment, and problem solving. Human Behavior in the Social Environment (HBSE) theories and social work ethics are important components of the course. Prerequisite(s): Admission to the major.

SOWK 4333. Social Work Field Seminar. 3 Credit Hours.

Integrate field experience and social work skills in order to transition from student to professional social worker. The Field Seminar is a course taken concurrently with a block field placement (SOWK 4932). Serves as an integrative capstone course for the field placement and social work program. Corequisite: SOWK 4932. May not be taken for credit if SOWK 4684 or SOWK 4685 has been completed.

SOWK 4334. Social Work Seminar. 1-3 Credit Hours.

Study current trends and issues related to professional social work practice, social service delivery, and populations at risk. May be repeated for credit when topics vary. Prerequisite(s): Junior standing & permission of department chair.

SOWK 4388. Social Work Problems. 1-6 Credit Hours.

Engage in independent reading and research on selected topics within social work. Entry into the course will be arranged by faculty member teaching the course.

SOWK 4684. Social Work Field Placement I. 6 Credit Hours.

Integrate theory and professional skill in a supervised, social work agency-based field placement. A minimum of 225 hours required to be completed and participation in a three-hour-per-week seminar. Prerequisite(s): Acceptance into the field program and completion of SOWK 3301, SOWK 3303, SOWK 3311 and SOWK 3304. Internship fee: \$125.

SOWK 4685. Social Work Field Placement II. 6 Credit Hours.

Integrate theory and professional skill in a supervised, social work agency-based field placement. Special emphasis on generalist social work practice and on the interrelationships among human behavior, social policy, research, and practice. A minimum of 225 hours required to be completed and participation in a three-hour-per week seminar. Prerequisite(s): Admission to the major, SOWK 4684 with a grade of C or better. It is advised that SOWK 4324 be taken as a co-requisite. Internship fee: \$125.

SOWK 4932. Social Work Field Instruction. 9 Credit Hours.

Integrate social work theory and professional skill within a supervised, agency-based generalist social work setting. A minimum of 450 hours required to be completed. Prerequisite(s): Acceptance into the field program, SOWK 4321. Corequisite SOWK 4333. May not be taken for credit if SOWK 4684 or SOWK 4685 has been completed. Internship fee: \$175.

SOWK 5090. Comprehensive Exam. 0 Credit Hours.

Comprehensive Examination Prerequisite(s): Enrolled in or completed SOWK 5985.

SOWK 5301. Introduction to the Social Work Profession, Ethics, & Skills. 3 Credit Hours.

This is a foundation course designed to develop student competencies in understanding the social work profession and its expected behaviors. It also develops competencies in professional social work values, ethics, and skills in a multicultural practice environment. Emphasis is placed on the historical development of the profession and social welfare services related to social work, social work values and ethics, important skills, and our involvement with diverse people. Prerequisite(s): Admission to the MSW program.

SOWK 5302. Human Behavior in Diverse Environments. 3 Credit Hours.

This is a foundation course designed to develop student competencies in understanding and applying human behavior with micro and macro systems in a context of human diversity. Systems theory provides a foundation for understanding and applying human behavior based on current theory and research. Prerequisite(s): Admission to the MSW program.

SOWK 5304. Social Welfare, Social, Economic, and Environmental Justice. 3 Credit Hours.

This is a foundation course in social welfare policy and advocacy. As such it combines elements of social, economic, and environmental justice along with policy practice (sometimes called advocacy). The course requires analysis of social welfare policy in terms of its effects and the design of strategies to address the disparities policies create among individuals, families, groups, organizations, and communities. Prerequisite(s): Admission to the MSW program.

SOWK 5305. Generalist Practice I: Individuals & Families. 3 Credit Hours.

This is a foundation course designed to develop student competencies in understanding and applying generalist practice methods with micro systems. Generalist practice is based on systems theory, person-in-environment and strengths perspectives, and the problem solving method. All will be cover and applied in this class. A primary intervention method covered will be case management. Prerequisite(s): Admission to the MSW program.

SOWK 5307. Contexts of SOWK Practice. 3 Credit Hours.

This is a foundation course in social work, macro human behavior, and social welfare policy and advocacy. As such it combines elements of social, economic, and environmental justice along with policy practice (sometimes called advocacy). The course requires analysis of social welfare policy in terms of its effects and the design of strategies to address the disparities policies create among individuals, families, groups, organizations, and communities. Prerequisite(s): Admission to the MSW program or graduate standing.

SOWK 5310. SOWK Practice Research Methods & Analysis. 3 Credit Hours.

This is a foundation course in social work research methods and analysis which forms the basis for engaging in evidence-based practice. In the course topics covered include research ethics, conducting a literature review, research methods, and analytical methods (statistics). The course focuses on developing critical analysis of social work related topics and preparation for the design of research for practice evaluation and developing new knowledge. Prerequisite(s): Admission to the MSW program or graduate standing.

SOWK 5312. Generalist Practice II: Groups. 3 Credit Hours.

Groups is a foundation course designed to develop student competencies in understanding the importance of groupwork across systems in the social work profession and its expected behaviors. It provides an overview of the role and significance that groupwork plays across work with all systems from micro to macro and covers major theories and models of groupwork in the profession. For example, task groups, self-help groups, recreation groups, socialization groups and other types of groups is highlighted. Groupwork as a fundamental part of practice is emphasized. Prerequisite(s): Admission to the MSW program.

SOWK 5315. Generalist Practice III: Orgs. & Communities. 3 Credit Hours.

This is a foundation course designed to develop student competencies in understanding and applying generalist practice methods with macro systems (organizations and communities). Generalist practice is based on systems theory, person-in-environment and strengths perspectives, and the problem solving method. All of these will be covered and applied in this class. Multiple intervention methods will be covered in this class. Prerequisite(s): Admission to the MSW program.

SOWK 5317. SOWK Leadership. 3 Credit Hours.

Advanced Social Work Leadership is an specialized concentration course designed to develop specialized competency in social work leadership for the profession. It focuses on student research on leadership, the comparison, and contrast of design of two professional leadership strategies for implementation in practice. Students will research in depth a social work leader and her/his leadership style. Students will then design personal strategies for leadership in professional organizations and one are of practice. Prerequisite(s): Completion of the professional foundation or Advanced Standing.

SOWK 5320. Supervision & Administration. 3 Credit Hours.

This course is a specialized concentration course that focuses on preparing students with advanced competencies in supervision and administration. Student activities will focus on learning and developing plans and styles of social work supervision and administration. Prerequisite(s): SOWK 5315 or Advanced Standing.

SOWK 5325. Advanced Generalist Practice I: Micro. 3 Credit Hours.

This is a specialized concentration course designed to develop student competencies in understanding and applying leadership in advanced generalist practice methods with micro systems. Advanced generalist practice is based on systems theory, person-in-environment and strengths perspectives, and the problem solving method. All will be covered and applied in this class as a framework for incorporating advanced knowledge, values, skills, cognitive and affective behaviors with smaller systems. Students will learn two advanced community and organizational practice interventions and also cover social work supervision and leadership. Prerequisite(s): Completion of the professional foundation or advanced standing.

SOWK 5330. Practice Evaluation. 3 Credit Hours.

This course is an advanced concentration course that focuses on preparing students with advanced competencies in practice informed research and research informed practice related to leadership in social work. SOWK 5330 requires students to execute a social work leadership research project in conjunction with their field placement. Any type of accepted research methodology may be used. Examples include qualitative, quantitative, evaluation, and historical research methods. The ethical conduct of research must be a part of this project. Student activities will focus on completing research projects that were designed in or modified from SOWK 5320. Prerequisite(s): SOWK 5320 or Advanced Standing.

SOWK 5335. Adv. Generalist Practice II: Mezzo & Macro. 3 Credit Hours.

This is an advanced concentration course designed to develop student competencies in understanding and applying leadership in advanced generalist practice methods with macro systems (communities and organizations). Advanced generalist practice is based on systems theory, person-in-environment and strengths perspectives, and the problem solving method. All will be covered and applied in this class as a framework for incorporating advanced knowledge, values, skill, cognitive and affective behaviors with smaller systems. Students will learn two advanced community and organizational practice interventions and also cover social work management and leadership. Prerequisite(s): Admission to the MSW program and completion of the professional foundation or advanced standing.

SOWK 5385. Field Instruction II. 3 Credit Hours.

This is the second foundation level field instruction course designed to develop student competencies in applying course competencies in an agency setting under the supervision of a professional social worker. It requires regular hours of attendance at the agency as scheduled, use of supervision, and participation in an integrative field seminar. The total number of agency hours during the semester is 225. Agencies are selected by the program and there major limitation on any placement in an agency in which a student is already employed. Student activities should reflect generalist practice with multiple systems. Professional behavior in accordance with the program field manual and the NASW Code of Ethics is required. Prerequisite(s): Admission to the MSW program.

SOWK 5389. Topics in Social Work. 3 Credit Hours.

This is an elective course for the MSW program. Topics will vary and may be repeated for credit when topic does vary. Prerequisite(s): Graduate standing.

SOWK 5985. Field Instruction III. 9 Credit Hours.

This is an advanced level field instruction course designed to develop student competencies in applying course competencies in an agency setting under the supervision of a professional social worker. It requires regular hours of attendance at the agency as scheduled, use of supervision, and participation in an integrative field seminar. The total number of agency hours during the semester is 510. Agencies are selected by the program and there are limitations on any placement in an agency in which a student is already employed. Student activities should reflect advanced generalist practice with multiple systems and leadership. Professional behavior in accordance with the program field manual and the NASW Code of Ethics is required. Prerequisite(s): Advanced standing or completion of the professional foundation and SOWK 5325, SOWK 5335, and 5320.

Sociology (SOCI)

SOCI 3301. Sociology of the Family. 3 Credit Hours.

Study the family as a social institution with emphasis on formation, functions, maintenance, child rearing, and family disorganization.

SOCI 3303. Race and Ethnicity. 3 Credit Hours.

Analyze relationships between dominant groups and minority groups that make up American society. Examine theories of race relations and prejudice, the meaning of racial differences, group conflict, and modes of accommodation.

SOCI 3304. Sociological Theory. 3 Credit Hours.

(WI) Examine the major schools of sociological thought, including perspectives from both classic and contemporary sociological theory.

SOCI 3305. Criminology. 3 Credit Hours.

Examine theories of criminology and significant research on causes, extent, cost and ecology of crime, police, criminal, and juvenile courts, and prisons and reformatories. Special emphasis on prevention and rehabilitation. Credit for both CRIJ 3305 and SOCI 3305 will not be awarded.

SOCI 3308. Deviant Behavior. 3 Credit Hours.

Examine factors and conditions leading to behaviors that violate and deviate from fundamental social values. Analyze the relationship of personal and social maladjustment in relation to the various theories of deviant behavior.

SOCI 3310. Sociology of Aging. 3 Credit Hours.

Study the reciprocal relationship between society and those considered aged by society, utilizing concepts and theoretical frameworks applicable to that population group. Explore the social forces that impinge on the aging process, including socially constructed images of the aged, and patterns of inequality of gender, race, and economics.

SOCI 3312. Environmental Sociology. 3 Credit Hours.

(WI) Examine relationships and interactions between society and the environment. Explore how the natural world influences the way societies are organized, with special emphasis on human communities as part of natural ecosystems. Prerequisite(s): None.

SOCI 3315. Methods of Sociological Research. 3 Credit Hours.

(WI) Learn the principles and methods of social research, including research design, methods of observation, questionnaires, and interviews. Apply qualitative and quantitative techniques of inference, analysis, and research report writing, to gain practical experience in limited research studies.

SOCI 3340. Media and Society. 3 Credit Hours.

Examine the interactions of culture and the media with a focus on representations of race, class, gender, and sexuality. Evaluate contemporary mass media to explore the unique relationship between media content, the industry that creates it, and audiences whose interpretations and demands constitute its market.

SOCI 4301. The Military Family. 3 Credit Hours.

Examine the relationship between the work organization and the family in the armed forces of the United States. Using a sociological perspective, analyze and discuss contemporary issues, situations, problems, and policies relevant to military families.

SOCI 4303. Social Inequalities. 3 Credit Hours.

Examine social inequality and categories of difference from a sociological perspective. Analyze social difference and stratification on the basis of race/ethnicity, class, gender, religion, and sexuality by examining how these categories are constructed, institutionalized, and experienced. Special emphasis on economic and labor-based inequality through the lens of contemporary global processes.

SOCI 4304. Sociology of Religion. 3 Credit Hours.

Examine the principles of religion, religious belief, and practice as a sociological concept. Special emphasis on the relationship of religion to the progress and stability of the social order.

SOCI 4305. Sociological Theory. 3 Credit Hours.

(WI) Examine the major schools of sociological thought, including perspectives from both classic and contemporary sociological theory.

SOCI 4310. Sociology of the Body. 3 Credit Hours.

Study the body as the container and expression of the self, as the object of social control, and the body as it relates to race, gender, sex, class, age, ability, sexuality, and transgender identities.

SOCI 4311. Sociology of Sexuality. 3 Credit Hours.

Study how sexuality is perceived, defined, and experienced in the context of society. Analyze the influence of sexuality on our lives, reflected in social norms, attitudes and beliefs, through public and private policies and practices, and social institutions.

SOCI 4312. Gender and Society. 3 Credit Hours.

Examine socialization to sex roles, and the male/female differences in family, work, and political behavior. Special Emphasis on male/female inequality, effects of gender in education and religion, and current changes in sex role definitions.

SOCI 4313. Development and Social Change. 3 Credit Hours.

Explore social processes and social problems as they are contained in the highly interdependent world system. Examine social change and development through historical, comparative, and critical perspectives. Analyze the problem of how and why societies and cultures around the world change, and evaluate whether those changes promote justice, equity, democracy, and development of human potential.

SOCI 4315. Social Science Statistics. 3 Credit Hours.

Apply the elementary forms of statistical processes, including central tendency, variation, the normal curve and Z scores, analysis of variance, regression analysis, and correlations to social science data. Explore the role of statistics in social work, sociology, criminal justice, political science, and gerontology. SPSS is utilized for data analysis.

SOCI 4316. Methods of Sociological Research. 3 Credit Hours.

(WI) Learn the principles and methods of social research, including research design, methods of observation, questionnaires, and interviews. Apply qualitative and quantitative techniques of inference, analysis, and research report writing, to gain practical experience in limited research studies.

SOCI 4317. Qualitative Research Methods. 3 Credit Hours.

Introduces methodological approaches corresponding to qualitative research methods, with special emphases on interviewing, observation techniques, ethnographic field-based methods, and content analysis. Prerequisite/Corequisite: SOCI 3315 or CRIJ 4316.

SOCI 4320. Social Psychology and Interaction. 3 Credit Hours.

Explore symbolic interactionism, and the influence of society, groups, culture, and other persons on the attitudes, behavior, and experiences of the individual. Prerequisite(s): None.

SOCI 4321. Transgender Studies. 3 Credit Hours.

Our understanding of what it means to be a gendered person has evolved over time. The sociological study of gender includes what it means to be transgender, including how gender identity is perceived, defined, and experienced in the context of societies. Students will be introduced to concepts like sex, gender, gender expression, gender identity, and sexual orientation. Students will also learn about transgender identities from various regions of the world as it relates to historic and contemporary issues, literature, history, politics, art, and culture.

SOCI 4388. Sociology Problems. 1-6 Credit Hours.

Engage in independent reading, research and discussion on selected topics in sociology. Entry into this course will be arranged with the sociology counselor.

SOCI 4389. Special Topics in Sociology. 1-3 Credit Hours.

Engage in independent reading, research, discussion, and paper writing under personal direction of instructor. May be taken more than once for credit if topics vary. Prerequisite(s): May be taken more than once for credit if topics vary.

SOCI 5304. Sociology of Religion. 3 Credit Hours.

An critical examination of religions and religious phenomena from the perspectives, theories, and methods of sociology. Reviews the major works of classical theorists such as Durkheim, Weber, and Marx, and recent theorists such as Berger and Stark.

SOCI 5305. Theoretical Sociology. 3 Credit Hours.

Study the historical development of sociological theory by examining the major works of classical, contemporary, postmodern and modern social theorists.

SOCI 5388. Sociology Problems. 3 Credit Hours.

Engage in independent reading, research, and discussion on selected topics in sociology, under the supervision of an instructor. May be repeated as topic varies for up to six hours of credit.

SOCI 5389. Special Topics in Sociology. 3 Credit Hours.

Explore selected topics within sociology. May be repeated as topics vary.

Spanish (SPAN)

SPAN 3600. Advanced Grammar and Culture. 6 Credit Hours.

This course is designed to allow students to study of intersections of language and culture in Spanish-speaking countries with emphasis on continued development of speaking, writing, and reading skills. Prerequisite(s): 6 hours of Spanish at the beginning level.

Special Education (SPED)

SPED 3361. Survey Exceptional Learners. 3 Credit Hours.

Study characteristics and educational programs for individuals with disabilities. Examine the legislation and litigation related to special education and the referral, diagnosis, and placement of exceptional learners. A field experience is required.

SPED 4362. Special Education Rules and Regulations for Teacher. 3 Credit Hours.

Analyze laws and litigation that affect the education of students with disabilities. Examine procedures pertinent to teachers providing special education services such as federal and state regulations, IEPs, and the development of basic instructional plans. Field experience required. Prerequisite(s): SPED 3361.

SPED 4363. Teaching Learners with Learning Disabilities. 3 Credit Hours.

Learning disabilities are examined with emphasis on history, definition, causation and characteristics. Content includes teaching methods for language, academic, and social skills as well as effective inclusive practices. Strategies for successful collaboration with parents, paraprofessionals and general education teachers are studied. Prerequisite(s): SPED 3361.

SPED 4364. Teaching Learners with Developmental Disabilities. 3 Credit Hours.

Study the etiology and characteristics associated with deficits in development. Examine effects of developmental disabilities in the areas of language acquisition and physical, social and emotional functioning. Explore methods for teaching functional academic skills, communication skills and life management skills, working with parents, paraprofessionals and related service personnel, community based instruction and vocational planning. Field experience required. Prerequisite(s): SPED 3361.

SPED 4365. Behavioral Management for the Classroom. 3 Credit Hours.

Explore managing a classroom that includes students with disabilities. Study positive interpersonal relationships in the classroom, increasing student motivation and learning, minimizing disruptive behavior, behavioral management strategies, curriculum adaptations, crisis management and behavior management theories and strategies. Also study typical characteristics associated with emotional disabilities and identification procedures utilized. Field experience required. Prerequisite(s): SPED 3361.

SPED 4366. Curriculum Modifications and Accommodations for General Education. 3 Credit Hours.

Study methods and approaches for adapting educational processes for students with disabilities. Emphasis on specialized teaching methods, preparation of materials, use of technology for adapting instruction and developing modifications and accommodations for the general education curriculum. Field experience required.

SPED 4367. Programs For Young Children with Disabilities. 3 Credit Hours.

Study young children with disabilities from birth to 6 years old, with an emphasis on the techniques for implementing programs to meet the needs of the child and the family. Learn early intervention, medical intervention, and public school educational programming for at-risk infants, toddlers, and young children, as well as parent involvement models to promote optimum parent-child and parent-professional relationships. Special emphasis on recent research related to early childhood special education. Field experience required. Prerequisite(s): SPED 3361.

SPED 4383. Teaching Learners with Learning and Behavior Anomalies. 3 Credit Hours.

Learning disabilities, emotional disturbances, and behavior management are investigated as intertwining educational divisions. Histories, definitions, etiologies, and characteristics are examined in conjunction with teaching methods for academics and social skills as well as effective inclusive practices. Strategies for successful collaboration with parents and various educators are explored. Field experience is required. Prerequisite: SPED 3361.

SPED 4388. Special Education Problems. 1-3 Credit Hours.

Study of selected problems in special education. Engage in independent research, reading and discussions under the personal direction of the instructor, topics may vary according to student need. Prerequisite(s): Junior or senior standing and admission to the Teacher Education Program and permission of the instructor and Curriculum and Instruction Program Coordinator.

SPED 5305. Introduction to Exceptional Learners. 3 Credit Hours.

Study characteristics of students identified with any of the 13 disabilities identified under IDEA. Examine, analyze, and identify instructional techniques that promote academic, personal, and social growth in learners identified with exceptionalities. Describe and identify the process and procedures relating to related services provided to learners with exceptionalities.

SPED 5311. Behavior Management in and out of Educational Settings. 3 Credit Hours.

Characteristics of students with emotional disorders, including the application of behavioral management strategies appropriate for students with emotional and behavioral disorders. Course content includes: functional behavioral assessment (FBA); development of behavior intervention plans (BIP); strategies for teaching appropriate replacement behaviors; crisis management strategies; integrating behavior management with instructional programs in school, community, and home settings.

SPED 5312. Characteristics and Supports for Persons Identified with Intellectual Disabilities. 3 Credit Hours.

This course will focus on adolescents and adults identified with intellectual disabilities. Learn teaching of functional academic skills, life management and communication skills, collaboration with related service providers, community-based instruction, and vocational planning and preparation. Prerequisite(s): SPED 5372.

SPED 5313. Advanced Study of Learning Disabilities. 3 Credit Hours.

Study research on learning disabilities, including causation, diagnosis and educational programming. Learn methods for teaching students with learning disabilities, adapting general education classrooms to accommodate the inclusion of students with learning disabilities, and collaboration with parents, paraprofessionals and general education teachers. Prerequisite(s): Admission to the graduate teacher certification program.

SPED 5315. Advanced Study of Developmental Disabilities. 3 Credit Hours.

Study research-based instructional methods appropriate for students with developmental delays and Autism Spectrum Disorders. Learn assessment and teaching of functional academic skills, life management and communication skills, collaborating with parents, paraprofessionals, general education teachers and related service providers, community-based instruction, and vocational planning and preparation.

SPED 5317. Individuals with Autism Spectrum Disorder and Related Disorders. 3 Credit Hours.

This course focuses on the typical characteristics associated with autism spectrum disorders (ASD) and other developmental disorders, identification procedures used, and the development of appropriate intervention programs. Prerequisite(s): SPED 5372.

SPED 5319. Parent Involvement in Young Children with Autism Spectrum Disorder. 3 Credit Hours.

The purpose of this course is for students to investigate, appraise, and apply evidence based practices for early intervention of students with Autism Spectrum Disorder and evaluate strategies for promoting parent education, parent training, and parent involvement in early childhood education.

SPED 5325. Appraisal Exception for Learners. 3 Credit Hours.

Analyze standardized assessments of the academic achievement of students referred for or currently receiving special education services, administer, score, analyze, report and plan programs according to results. Prerequisite(s): PSYC 5301 or concurrent enrollment or permission of Curriculum and Instruction Program Coordinator.

SPED 5327. Teaching Students with Severe and Profound Disabilities. 3 Credit Hours.

Study definitions, characteristics, and instructional techniques for students with severe and profound disabilities, including functional assessment, applied behavioral analysis, Individualized Education Program (IEP) goals and objectives, and transition and placement issues. Prerequisite(s): SPED 5305 or permission of Curriculum and Instruction Chair.

SPED 5328. Case Management Education Diagnosticians. 3 Credit Hours.

This course addresses state and federal laws that affect the diagnosis, placements, and programs for students with disabilities and the diagnostician's role and responsibilities as compliance officers. Enrollment limited to students admitted to the Diagnostician Certification Program or permission of Curriculum & Instruction Program Coordinator. Prerequisite(s): SPED 5325.

SPED 5329. Assessing Cognitive Abilities. 3 Credit Hours.

Standardized assessment of the cognitive and adaptive behavior abilities of exceptional students. Includes test administration, scoring, analysis, and program planning. Prerequisite(s): PSYC 5381 or permission of Curriculum & Instruction Program Coordinator.

SPED 5362. The Law and Special Education. 3 Credit Hours.

Analyze laws and litigation that affect the education of persons with exceptionalities. Examine procedures pertinent to teachers and others providing services to persons with exceptionalities. Prepare to meet requirements necessary to fulfill job duties, including federal and state regulations.

SPED 5372. Single Subject Research Design. 3 Credit Hours.

Students will use the scientific method to evaluate assessment and intervention techniques in behavior analysis. Topics include single-subject experimental design, critical analysis of research reports as consumers, measurement techniques, selection of dependent and independent variables, graphical presentation and evaluation of results, and ethics pertaining to human subjects. Principles and procedures involved in the experimental analysis of reinforcement schedules, stimulus control, and stimulus equivalence are included.

SPED 5374. Exceptionalities across the Lifespan. 3 Credit Hours.

Students will evaluate physical and cognitive development of individuals with exceptionalities from birth through adulthood in order to analyze and implement appropriate evidence based practices for each stage of life.

SPED 5377. Consultation and Collaboration. 3 Credit Hours.

Students will develop the knowledge and skills needed to effectively collaborate and consult with families, school personnel, and/or community members in and out of educational settings. Other topics include team memberships, partnerships with families, partnerships with community support services, and development of inter-agency to address the needs of individuals with exceptionalities.

SPED 5382. Current Trends and Issues Addressing Challenging Behaviors. 3 Credit Hours.

This course covers more advanced behavioral principles and provides an in-depth review of applied behavior techniques. It covers conducting behavioral assessments, designing effective behavior change programs, and applying behavioral procedures consonant with ethical standards. Students will learn to apply research-based interventions in approved settings to make improvements in socially significant behaviors as well as to evaluate the effects of procedures. Prerequisite(s): PSYC 5382, SPED 5372.

SPED 5384. Special Education Teaching Internship. 3 Credit Hours.

A supervised, field-based experience in a special education classroom. Interns must demonstrate proficiency in applying effective teaching practices and classroom management strategies in a school classroom. Prerequisite(s): admission to a teacher certification program at TAMUCT; satisfactory performance in the professional development courses preceding the internship. May be repeated for credit. Field experience fee \$75.

SPED 5385. Education Diagnostician Internship. 3 Credit Hours.

Supervised professional activities for persons preparing for certification as an educational diagnostician. Professional activities will include test administration, scoring, analysis, diagnosis, report writing, and program planning. Interns will be required to demonstrate competence in the performance of professional duties as an educational diagnostician. A minimum of 300 hours of documented related professional activities will be required. Prerequisite(s): SPED 5305, SPED 5325 and SPED 5329 or permission of Curriculum & Instruction Program Coordinator. Field experience fee: \$75.

SPED 5388. Special Education Problems. 1-3 Credit Hours.

Open to graduate students who are capable of developing a problem independently. Problems are chosen by the student and approved in advance by the instructor and Division Director. Prerequisite(s): Full admission to the Graduate School and a graduate degree or certification program.