### Key to Course Prefixes

<table>
<thead>
<tr>
<th>College</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BADM</td>
<td>College of Business</td>
</tr>
<tr>
<td>CEPS</td>
<td>College of Education and Professional Studies</td>
</tr>
<tr>
<td>CFAD</td>
<td>College of Fine Arts &amp; Design</td>
</tr>
<tr>
<td>CLA</td>
<td>College of Liberal Arts</td>
</tr>
<tr>
<td>CM&amp;S</td>
<td>College of Mathematics and Science</td>
</tr>
<tr>
<td>FSI</td>
<td>Forensic Science Institute</td>
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</tbody>
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### Course Code Department, College

<table>
<thead>
<tr>
<th>Code</th>
<th>Department, College</th>
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<tbody>
<tr>
<td>ACCT</td>
<td>Accounting, Accounting, BADM</td>
</tr>
<tr>
<td>ADED</td>
<td>Adult Education, Occupational and Technology Education, CEPS</td>
</tr>
<tr>
<td>ART</td>
<td>Arts, Art, CFAD</td>
</tr>
<tr>
<td>BIO</td>
<td>Biology, Biology, CM&amp;S</td>
</tr>
<tr>
<td>BADM</td>
<td>Business, General Business, BADM</td>
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<tr>
<td>BCOM</td>
<td>Business Communications, General Business, BADM</td>
</tr>
<tr>
<td>BME</td>
<td>Biomedical Engineering, CM&amp;S</td>
</tr>
<tr>
<td>CHEM</td>
<td>Chemistry, Chemistry, CM&amp;S</td>
</tr>
<tr>
<td>CHIN</td>
<td>Chinese, Modern Languages, Literatures, and Cultural Studies, CLA</td>
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<tr>
<td>COMM</td>
<td>Communications, Communications, CLA</td>
</tr>
<tr>
<td>CMSC</td>
<td>Computer Science, Computer Science, CM&amp;S</td>
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<tr>
<td>CSDY</td>
<td>Creative Writing, English, CLA</td>
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<tr>
<td>CJ</td>
<td>Criminal Justice, Sociology, Criminal Justice and Substance Abuse Studies, CLA</td>
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<tr>
<td>DANC</td>
<td>Dance, Theatre, Dance and Media Arts, CFAD</td>
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<tr>
<td>DES</td>
<td>Design, Design, CFAD</td>
</tr>
<tr>
<td>EDAM</td>
<td>Educational Administration, Advanced Professional Services, CEPS</td>
</tr>
<tr>
<td>ECED</td>
<td>Early Childhood Education, Curriculum &amp; Instruction, CEPS</td>
</tr>
<tr>
<td>ECON</td>
<td>Economics, Economics, BADM</td>
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<tr>
<td>ELED</td>
<td>Elementary Education, Curriculum and Instruction, CEPS</td>
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<tr>
<td>ENGR</td>
<td>Engineering, Physics and Engineering, CM&amp;S</td>
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<tr>
<td>ENG</td>
<td>English, English, CLA</td>
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<tr>
<td>ESFR</td>
<td>Educational Sciences, Foundations &amp; Research, CEPS</td>
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<tr>
<td>FMCD</td>
<td>Family and Child Development, Human Environmental Sciences, CEPS</td>
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<tr>
<td>FACS</td>
<td>Family and Consumer Science Education, Occupational and Technology Education, CEPS</td>
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<tr>
<td>FMKT</td>
<td>Fashion Marketing, Human Environmental Sciences, CEPS</td>
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<tr>
<td>FIN</td>
<td>Finance, Finance, BADM</td>
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<td>FRSC</td>
<td>Forensic Science, FSI</td>
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<td>FRCH</td>
<td>French, Modern Languages, Literatures and Cultural Studies, CLA</td>
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<tr>
<td>FNRL</td>
<td>Funeral Service, Funeral Service, CM&amp;S</td>
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<tr>
<td>GENS</td>
<td>General Science, Physics and Engineering, CM&amp;S</td>
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<tr>
<td>GEO</td>
<td>Geography, History and Geography, CLA</td>
</tr>
<tr>
<td>GERO</td>
<td>Gerontology, Sociology, Gerontology, and Substance Abuse Studies, CLA</td>
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<tr>
<td>GUID</td>
<td>Guidance, Advanced Professional Services, CEPS</td>
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<tr>
<td>HLTH</td>
<td>Health, Kinesiology and Health Studies, CEPS</td>
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<tr>
<td>HES</td>
<td>Human Environmental Sciences, CEPS</td>
</tr>
<tr>
<td>HUM</td>
<td>Humanities, Humanities and Philosophy, CLA</td>
</tr>
<tr>
<td>ISOM</td>
<td>Information Systems and Operations Management, Information Systems and Operations Management, BADM</td>
</tr>
<tr>
<td>IME</td>
<td>Instructional Media Education, Advanced Professional Services, CEPS</td>
</tr>
<tr>
<td>JAPN</td>
<td>Japanese, Modern Languages, Literatures and Cultural Studies, CLA</td>
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<tr>
<td>JOUR</td>
<td>Journalism, Journalism, CLA</td>
</tr>
<tr>
<td>KINS</td>
<td>Kinesiology, Kinesiology and Health Studies, CEPS</td>
</tr>
<tr>
<td>LATN</td>
<td>Latin, Modern Languages, Literatures and Cultural Studies, CLA</td>
</tr>
<tr>
<td>LS</td>
<td>Legal Studies, General Business, BADM</td>
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<tr>
<td>MGMT</td>
<td>Management, Management, BADM</td>
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<tr>
<td>MRKT</td>
<td>Marketing, Marketing, BADM</td>
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<tr>
<td>MATH</td>
<td>Mathematics, Mathematics &amp; Statistics, CM&amp;S</td>
</tr>
<tr>
<td>MSBA</td>
<td>Business Analytics</td>
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<tr>
<td>MUS</td>
<td>Music, Music, CFAD</td>
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<tr>
<td>MUED</td>
<td>Music Education, Music, CFAD</td>
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<tr>
<td>MPER</td>
<td>Music Performance, Music, CFAD</td>
</tr>
<tr>
<td>NURS</td>
<td>Nursing, Nursing, CM&amp;S</td>
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<tr>
<td>NTRN</td>
<td>Nutrition, Human Environmental Sciences, CEPS</td>
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<tr>
<td>OCTE</td>
<td>Occupational and Technology Education, CEPS</td>
</tr>
<tr>
<td>PHIL</td>
<td>Philosophy, Humanities and Philosophy, CLA</td>
</tr>
<tr>
<td>PHED</td>
<td>Physical Education, Kinesiology and Health Studies, CEPS</td>
</tr>
<tr>
<td>PHY</td>
<td>Physics, Physics and Engineering, CM&amp;S</td>
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<tr>
<td>POL</td>
<td>Political Science, Political Science, CLA</td>
</tr>
<tr>
<td>PSM</td>
<td>Professional Science Masters, CM&amp;S</td>
</tr>
<tr>
<td>PTE</td>
<td>Professional Teacher Education, Professional Teacher Education, CEPS</td>
</tr>
<tr>
<td>PSY</td>
<td>Psychology, Psychology, CEPS</td>
</tr>
<tr>
<td>READ</td>
<td>Reading, Special Services, CEPS</td>
</tr>
<tr>
<td>REC</td>
<td>Recreation, Kinesiology and Health Studies, CEPS</td>
</tr>
<tr>
<td>SFTY</td>
<td>Safety, Occupational and Technology Education, CEPS</td>
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<tr>
<td>SOST</td>
<td>Social Studies, Sociology, Criminal Justice and Substance Abuse Studies, CLA</td>
</tr>
<tr>
<td>SOC</td>
<td>Sociology, Gerontology, and Substance Abuse Studies, CLA</td>
</tr>
<tr>
<td>SPAN</td>
<td>Spanish, Modern Languages, Literatures and Cultural Studies, CLA</td>
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<tr>
<td>SLP</td>
<td>Speech, Language Pathology, Special Services, CEPS</td>
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<tr>
<td>SPED</td>
<td>Special Education, Special Services, CEPS</td>
</tr>
<tr>
<td>STAT</td>
<td>Statistics, Mathematics and Statistics, CM&amp;S</td>
</tr>
<tr>
<td>SAS</td>
<td>Substance Abuse Studies, Sociology, Gerontology, and Substance Abuse Studies, CLA</td>
</tr>
<tr>
<td>TESL</td>
<td>Teaching English as a Second Language, Curriculum and Instruction, CEPS</td>
</tr>
<tr>
<td>THRT</td>
<td>Theatre, Theatre, Dance and Media Arts, CFAD</td>
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ACCOUNTING (ACCT)  
Department of Accounting

ACCT 5013 - Accounting Research Methods  
This course provides a framework for graduate research methods and technical writing in accounting, auditing, and tax research. Prerequisite(s): Completed all prerequisites for the MBA Program, 21 credit hours in upper division accounting courses including ACCT 3233, ACCT 4213, and ACCT 4363, and BADM 5005 and BADM 5115.

ACCT 5103 - Controllership & Decision Accounting  
Students examine the conceptual and technical issues involved in meeting the accounting information needs of managers. Primary emphasis is on managerial decision making, planning, controlling, and evaluating performance. Prerequisite(s): Completed all prerequisites for the MBA Program.

ACCT 5113 - Accounting Theory  
This course provides a frame of reference in financial accounting theory, origin and development of accounting practices, and a critical study of current accounting theory. Prerequisite(s): Completed all prerequisites for the MBA Program, 21 credit hours in upper division accounting courses including ACCT 3233 and ACCT 5013, BADM 5005 and BADM 5115.

ACCT 5213 - Current Topics In Accounting  
This course provides the student with knowledge and ethical insight to current problems and/or new areas of concern emerging in the field of accounting. Prerequisite(s): Completed all prerequisites for the MBA Program and 21 credit hours in upper division accounting courses including ACCT 3233 and ACCT 5013 and BADM 5005 and BADM 5115.

ACCT 5313 - Current Issues In Taxation  
This course required students to analyze cases involving pass-through entities and federal tax situations with emphasis on research and planning. Prerequisite(s): Completed all prerequisites for the MBA Program, 21 credit hours in upper division accounting courses including ACCT 3333 and ACCT 5013 and BADM 5005 and BADM 5115.

ACCT 5423 - Current Issues In Auditing  
This course is designed to challenge students to consider philosophies and concepts of accounting and auditing; to understand the current developments, threats and ethical attributes of the profession. Prerequisite(s): Completed all prerequisites for the MBA Program, 21 credit hours in upper division accounting courses including ACCT 4363 and ACCT 5013, and BADM 5005 and BADM 5115.

ACCT 5900 - Practicum In Accounting  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

ACCT 5990 - Internship  
ACCT 5950 - Internship
One to eight hours credit; subject matter will vary within the departments field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

ACCT 5960 - Institute In Accounting  
ACCT 5960 - Institute In Accounting
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

ACCT 5970 - Study Tour  
ACCT 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

ACCT 5990 - Thesis  
ACCT 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

ADULT EDUCATION (ADED)  
Department of Adult Education & Safety Science

ADED 5031 - Introduction to Adult & Higher Education  
ADED 5031 - Introduction to Adult & Higher Education
Introduction to Adult and Higher Education is an introduction to the Master’s Program in Adult and Higher Education. Essential components and course content will include advisement and introductory paperwork necessary for continued program enrollment in the ADHED program, resources for success including online resources, study skills including APA formatting, Turnitin, plagiarism, learning styles, and basic computer skills for working in an online environment.

ADED 5073 - Managing Adult Education/Community Service  
ADED 5073 - Managing Adult Education/Community Service
Organization and administration of adult programs with emphasis on assessing needs, planning staff development, fiscal operations, facilities, evaluation, and maintenance of effective community relations.

ADED 5133 - Philosophical Foundations Of Adult Education  
ADED 5133 - Philosophical Foundations Of Adult Education
This course is an overview of the philosophical and historical foundations influencing adult education including a disciplined philosophical analysis of major issues and problems in adult education. The development of individual teaching philosophies, study of significant philosophers in the field of adult education, and the impact of historical education events on today’s education system are included.

ADED 5153 - Foundations Student Personnel  
ADED 5153 - Foundations Student Personnel
This course will introduce students to the field of Student Personnel Service and its role within the context of American higher education. More specifically, this course provides an introduction to the origins, history, philosophy and current best practices of the college student personnel profession.

ADED 5163 - Leadership and Organizational Communication in AHE  
ADED 5163 - Leadership and Organizational Communication in AHE
This course introduces the multiple conceptual approaches to organizational leadership within the adult and higher education field. Students will examine several theories of leadership and organizational communication and their application. Issues of change management, organizational climate, ethical practice, and organizational communication and improvement will be addressed.

ADED 5233 - Learner-Centered Design & Implementation  
ADED 5233 - Learner-Centered Design & Implementation
Learner-Centered Design & Implementation provides a foundation in the instructional design and implementation of adult learning. The course introduces learners to the entire spectrum of adult education instructional design and implementation, including needs analysis development, instructional design theory focused on adult learners, methods of delivery, and evaluation. This course will provide learners with practical experience designing and implementing learning experiences focused on the adult learner in academic and workplace environments.
This course focuses on the theories and practices of student development in the academic setting. The emphasis will be on the psychological, social, and educational development of the student. The course will allow discussion of traditional behavioral theories, learning practices, social development and current trends and future directions in behavioral science including concepts of developing high-performance perception, problem-solving and intellectual development. The course will incorporate techniques of survey research on student motivation and academic trends.

This course will improve an adult educator’s skills in teaching/training adult learners in an education and/or business setting. Emphasis will be placed on the functions of planning, organizing, conducting, and evaluating the instructional process of adult education and training programs.

This course will familiarize the student with the basic skills and theory related to coaching and advising for both traditional and non-traditional learners. This class will introduce students to basic interpersonal helping skills required in higher education settings including: relationship building, conflict management and resolution, career and self-assessment processes, legal and ethical issues connected to the helping relationship, and adult developmental issues. The course will also address the basics of listening skills and feedback, and working in groups that are social as well as academic and task focused. Students will be introduced to crisis intervention models and techniques, strategies for making appropriate referrals, and considerations about self and others when engaged in helping relationships, with additional focus on issues of equity, inclusion, and justice. Central to the course will be discussion of the appropriate limitations in working with students.

This course provides the tools to help students develop or increase the skills necessary to help motivate adult learners.

This course focuses on the organization and administration of adult and higher education from legislative, legal, structural-functional, power, political, bureaucratic and social perspectives. Topics covered include: governance, central office organization, administrative position analysis, faculty organization, faculty participation in policy formation and decision-making, academic freedom, goal analysis, budgetary policies and methods, and decision strategies in handling a representative set of administrative problems. The course will provide students with a thorough examination of the administration and governance structures within adult and higher education and an understanding of the unique organizational, governance, and administrative characteristics of colleges and universities, as well as for-profit institutions in American higher education.

This course is an examination of the theory and practice of evaluating adult and higher education programs. The field of educational evaluation is growing rapidly, as are issues with accountability. The course will introduce students to a tested model of evaluation and a wide variety of concepts and practices that are related to the field of educational evaluation. Techniques necessary for constructing valid and reliable measurement and assessment tools will also be studied.

This course will examine the role of human relations in organizations with particular emphasis on the training and development function. Topics addressed include communications, attitudes, positive self-concept, communication styles, motivation, values, emotional control, positive reinforcement, team building, and conflict management.

Contemporary Issues in Student Personnel Services is designed to be a broad survey of the issues surrounding and supporting the field of Student Personnel Services. Using assigned readings, class discussion and student presentations, this course will critically examine contemporary issues in such areas as academic advising, admissions and enrollment management, career development and placement, financial aid, judicial affairs, leadership development, residential life and student activities in the field of Student Personnel Services in Higher Education.

This course addresses the characteristics of an effective supervisor. Topics include motivating employees, appraisal of employees, building relationships within the organization, creating a positive work climate, making quality decisions, handling human resource problems, managing time and stress, setting priorities and demonstrating leadership skills. Prerequisite(s): Graduate standing.

Innovative Technology in Adult Education is designed to familiarize students with the latest in innovative technologies for adult education as well as examine the social and cultural impacts of the use of those technologies. It provides students with a vision of the future of education through innovations in technology as well as traces the innovative path from theory to practice.

This course will address techniques of successful proposal and grant writing. It will focus on following proposal guidelines and granting institution Request For Proposal’s (RFP’s) as well as identifying and developing strategies for successful completion of proposal and grant writing projects.

The Developing Online Learning course is designed to present concepts and skills used in the development of online courses and training programs specifically for the adult learner. The course provides specific applications in academic and workplace learning environments. Prerequisite(s): ADED 5233 and ADED 5623.

The Facilitating Online Learning Adults course is designed to present concepts and skills used in the delivery and facilitation of online course and training programs focusing specifically for the adult learner. The course provides specific applications in academic and workplace learning environments. Prerequisite(s): ADED 5233 and ADED 5623.

This course emphasizes adult learning theories and the implication those theories have for the education of adults. Psychological, sociological and physiological characteristics of adult learners are examined as well as the changing societal trends and demographics affecting adult education. Individual learning styles, methodologies of instructing adults, and the importance of well-constructed learning environments are also investigated.
AESS 5900 - Practicum in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5910 - Seminar in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5910 - Seminar in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5930 - Individual Study in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5950 - Internship in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5950 - Internship in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5960 - Institute in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5970 - Study Tour in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5980 - Project in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

AESS 5990 - Thesis
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.
ART 5053 - Native American Art
This course covers the evolution of Native American art from pre-history roots through contemporary expression. Prerequisite(s): Graduate standing.

ART 5223 - West African Art
This course explores the social, religious, and political influences on the creation of the arts of Africa. Arts from Western Nigeria to Guinea are discussed in relation to stylistic and functional similarities and differences.

ART 5233 - Central African Art
This course explores the social, religious, and political influences on the creation of the arts of Africa. Arts from Central Africa from Eastern Nigeria to South Africa are discussed in relation to stylistic and functional similarities and differences.

ART 5303 - History And Criticism Of Art
This course provides an opportunity for extended study of past and contemporary art history with a critical analysis of art content and methods. Prerequisite(s): ART 1112, 3153, 4303.

ART 5343 - Multicultural Art
This course offers a study of the cultural and historical significance of the art from various cultures. Symbols that are common to cultures throughout the world will be discussed in relation to their meanings and possible origins.

ART 5363 - Art by Women
This course offers study in the visual art contributions of women. Historical, cultural, and political influences on women’s art are examined.

ART 5842 - Elementary Art Educational Methods/Art Majors
Students develop a sequential discipline-based Art Education curriculum for elementary schools. Prerequisite(s): Graduate standing.

ART 5853 - Secondary Art Educational Methods/Art Major
Curriculum materials for secondary school art will be developed and sequentially organized. Presentation techniques are practiced. Prerequisite(s): Graduate standing.

ART 5910 - Seminar / Special Topics
Credit varies from 1 to 4 hours. Directed intensive study on selected problems of special topics. Prerequisite(s): An undergraduate minor in the subject matter area and permission of graduate advisor.

ART 5930 - Individual Study
Credit varies from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines of plan; conferences, oral and written reports. Prerequisite(s): An undergraduate major in the subject matter area to be studied, and permission of graduate advisor.

ART 5940 - Field Study in Art
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

ART 5970 - Study Tour In Art And Design
Credit will vary. Subject matter will vary within the department’s field of study.

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**BUSINESS ADMINISTRATION (BADM)**

**Department of Management**

**BADM 5005 - Leading Global Competitive Environments**
This course will help students develop effective communication and leadership skills and examines diversity and ethics in a variety of cultural contexts. Prerequisite(s): Enrollment open to MBA majors only.

**BADM 5013 - MBA Foundation Skills**
This course is designed for post-undergraduate, pre-MBA students and others in business looking to solidify their business skills in preparation for an MBA or a first time work force experience. Topics include: basic skills to succeed in pursuit of an MBA; business computer and systems literacy skills; business communication; analysis and decision making; working in business; and experiential business. The course benefits all who want to strengthen their abilities and earning potential by developing key in-demand business practices.

**BADM 5023 - Business in Contemporary Society**
This course is designed for post-undergraduate, pre-MBA students and others in business looking to understand contemporary business. Topics include: the role of business in American society, its purposes and responsibilities, its structure, its practical operations and functions, and its most important asset - business people. The course also compares American business to its counterparts throughout the world. Finally, the course examines the evolution of business practice and thought.

**BADM 5033 - Survey of Bus Disciplines**
This course is designed for the post-undergraduate, pre-MBA students and others in business looking for an overview or refresher of essential topics in business. Topics include: accounting, business law, economics, finance and financial markets, information systems and technology, management basics, marketing fundamentals, and organizations. Integration of these topics is stressed throughout the course with a particular focus on business strategy.

**BADM 5115 - Human Capital Management**
This course identifies current issues in human capital management with emphasis on behavioral and legal aspects of the overall organization. Prerequisite(s): BADM 5005 with a minimum grade of “B”. Enrollment open to MBA majors only.

**BADM 5125 - Accounting and Finance**
This course introduces students to key functions of both finance and accounting in an organization. Emphasis is on how to analyze, interpret and communicate a variety of financial information to management, co-workers, employees, customers, and other interested stakeholders. Topics will be covered through lectures, discussion problems, cases, and a hands-on project assignment. Prerequisite(s): BADM 5005 with a minimum grade of “B”. Enrollment open to MBA majors only.

**BADM 5135 - Prices, Profits & Market Economy**
This course examines the market economy from Economics and Marketing points of view. Special emphasis is placed on the economic constraints and opportunities marketing. Prerequisite(s): BADM 5005. Enrollment open to MBA majors only.

**BADM 5150 - Managing Business Processes w/Information Technology**
This course provides a systems view of an organization and enables students to apply appropriate operations models and information technology concepts and applications. Prerequisite(s): BADM 5005 with a minimum grade of “B”. Enrollment open to MBA majors only.

**BADM 5215 - Quantitative Modeling**
Managerial/organizational decision methods and the role of statistics for the analysis of business modeling will be identified. The development and implementation of such analysis and modeling systems will be explored. Prerequisite(s): BADM 5005 with a minimum grade of “B” and BADM 5125 with a minimum grade of “C”. Enrollment open to MBA majors only.
Graduate Course Descriptions

**BUSINESS COMMUNICATION (BCOM)**

**Department of General Business**

**BCOM 5000 - Workshop**
Credit will vary from 1 to 4 hours; subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given. No more than 2 hours of workshop may be counted on a master's degree.

**BCOM 5030 - Business Research Methods**
Concepts and methods of the scientific research process: defining the problem; stating the hypothesis; designing the investigation; developing the proposal; collecting, organizing, presenting, analyzing, and interpreting the data; and reporting the results in both written and oral forms. Prerequisite(s): Completed all prerequisites for the MBA Program.

**BCOM 5232 - Communication & Business Behavior**
Application of contemporary management and behavioral theories to interpersonal group communication within business organizations. Prerequisite(s): Completed all prerequisites for the MBA Program.

**BCOM 5900 - Practicum**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**BCOM 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.

**BCOM 5920 - Workshop**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

**BCOM 5930 - Individual Study**
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports.

**BCOM 5940 - Field Study**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

**BCOM 5950 - Internship**
Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**BCOM 5960 - Institute**
Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study.

**BCOM 5970 - Study Tour**
Credit will vary. Subject matter will vary within the department's field of study.

**BCOM 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

**BIOLOGY (BIO)**

**Department of Biology**

**BIO 5012 - Intro to Biological Research**
This course guides students in designing a research project, writing a proposal, and conducting and reporting research. Additionally, students learn to search the biological literature and critically evaluate published research papers. Emphasis is also placed on the development of written and oral communication skills. An individual research project is required. Completion of a course in Statistics is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

**BIO 5024 - Freshwater Ecology & Lab**
This course studies freshwater life with special emphasis on community relationships, ecological factors in different habitats and their influence on the distributions, abundances, and adaptations of freshwater organisms. It consists of three hours of lecture and three hours of laboratory per week. Extensive field work is required. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

**BIO 5024L - Freshwater Ecology Laboratory**
This is a three-hour per week laboratory to accompany BIO 5024.

**BIO 5044 - GIS & Ecology**
This course is an examination of the use of Geographic Information Systems (GIS) and their application to ecology. Topics include GPS, remote sensing, basic GIS operations, topographic and linear operations, temporal change, spatial interpolation, modeling, and its application to population, community, and landscape ecology. This course consists of three hours of lecture and three hours laboratory per week. Completion of a course in Ecology and a course in Statistics are recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.
BIO 5053 - Conservation Biology
This course is a study of anthropogenic effects on biological diversity. Through a combination of in-class lectures, discussions, and readings from the primary and secondary literature, students will learn how human activities have threatened biological diversity at the global scale, both historically and currently. Mechanisms for preventing future losses of biological diversity, both at the individual and societal levels, will be emphasized. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5103 - History and Nature of Science
The course surveys the history of the natural sciences beginning with the natural philosophers of ancient Greece and continuing through the Middle Ages, the Renaissance and into the Modern Era. Taught as a series of historical episodes, the course will include discussion of original literature about the scientific process, including the social and philosophical implications of that process. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5113 - Biogeography
This course is a study of the distribution of organisms, both past and present. The course includes concepts from ecology, evolution, and geology. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5124 - Herpetology
The morphology, ecology, physiology, behavior and evolution will be studied in extant and extinct Amphibians and Reptiles. General principles and functional processes will be illustrated using recent empirical findings. This course consists of three hours lecture and three hours laboratory. Completion of a course in Ecology or a course in Vertebrate Zoology is strongly recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5124L - Herpetology Laboratory
This is a laboratory for BIO 5124. Prerequisite(s): 12 hours of Biology and BIO 1404.

BIO 5134 - Developmental Biology and Lab
This course is an analysis of mechanisms of early development of invertebrates and vertebrates. Emphasis is on the cellular, molecular, and genetic study of the determination of the body plan, and morphogenesis of selected organs. It consists of three hours lecture and three hours laboratory per week. Completion of a course in Genetics is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5204 - Plant Ecology and Laboratory
This course is a study of the interactions of plants with their environment. The course covers terrestrial, vascular plant ecology with investigations at the population, community and ecosystem levels of ecology. The course consists of three hours of lecture and three hours of laboratory per week. Field trips are required. Completion of a course in Ecology is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5204L - Plant Ecology Laboratory
This is the lab for BIO 5204.

BIO 5254 - Animal Behavior
The behavior of animals will be studied emphasizing the ecological and evolutionary significance of behavior patterns in nature. General principles and processes will be illustrated using recent empirical findings. Completion of a course in Evolution is strongly recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5254L - Animal Behavior Laboratory
This is a three-hour per week laboratory to accompany BIO 5254. Field work required.

BIO 5264 - Mammalogy and Laboratory
This course is a survey of mammals; including their taxonomy, anatomy, ecology, distribution, behavior and natural history. It consists of three hours lecture and three hours laboratory per week and participation on weekend field trips is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5264L - Mammalogy Laboratory
This is a three-hour per week laboratory to accompany BIO 5264. Participation on weekend field trips is recommended.

BIO 5294 - Plant Taxonomy and Laboratory
This course covers vascular plant classification, identification, nomenclature and evolution, with laboratory experience in plant collection and identification. The course consists of three hours of lecture and three hours laboratory per week. Field work is required. Completion of a course in Evolution is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5294L - Plant Taxonomy Laboratory
This is the laboratory for BIO 5294.

BIO 5303 - Physiological And Biochemical Adaptation
This course is a comprehensive study of physiological and biochemical strategies which help organisms adapt to various environmental conditions. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5324 - Marine Ecology and Laboratory
This course studies marine life with special emphasis on community relationship, ecological factors in different habitats and their influence on the distributions, abundances, and adaptations of marine organisms. It consists of three hours of lecture and three hours of laboratory per week. Extensive field work, including a one-week trip to the Texas Gulf Coast is required. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5324L - Marine Ecology Laboratory
This is a three-hour per week laboratory to accompany BIO 5324.

BIO 5334 - Environmental Microbiology & Laboratory
This course is an advanced study in microbiology dealing with the use of microorganisms to mineralize, detoxify and degrade environmental contaminants. This course will study the mechanisms and processes by which microorganisms are involved in the treatment of sewage, identification of waterborne microbial diseases. The course will investigate the remediation of heavy metal contaminated soils. Laboratory exercises will enable students to become familiar with and to use standard tests for the analysis of water and wastewater and the biodegradation of environmental pollutants. Completion of a course in Microbiology is strongly recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5343 - Molecular Biology Techniques & Laboratory
This lecture and laboratory course presents advanced principles of DNA analysis techniques. Both human (forensic) and non-human applications will be discussed. Topics covered in this course include DNA extraction, DNA quantification, polymerase chain reaction, DNA fragment analysis, DNA sequencing, and bioinformatic databases. This course consists of two hours lecture and three hours laboratory per week. Completion of a course in Genetics is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor. Credit may not be earned for both BIO 5343 and FRSC 5333.
BIO 5343L - Molecular Biology Techniques Laboratory
This is a three-hour per week laboratory to accompany BIO 5343.

BIO 5354 - Plant Anatomy and Laboratory
This course includes a study of external and internal structures of vascular plants with attention to correlating structure with function. Students will be required to complete an individual research project as part of the course. It consists of three hours of lecture and three hours of laboratory per week. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5354L - Plant Anatomy Laboratory
This is a three-hour per week laboratory to accompany BIO 5354.

BIO 5443 - Microtechnique and Laboratory
The course is an introduction to manual techniques of tissue processing and staining procedures along with microphotography, phase microscopy, and fluorescence microscopy. Student presentations of special projects are required. It consists of one hour lecture and six hours laboratory per week. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5443L - Microtechnique Laboratory
This is the laboratory to accompany BIO 5443.

BIO 5454 - Molecular Cell Phys and Laboratory
This course emphasizes a study of the molecular and physiological aspects of cell life. Topics include cell dynamics, protein structure and function, nucleic acids, recombinant DNA technology, sub-cellular organization, photosynthesis, respiration, integrated metabolism, transport, and differentiation. It consists of lecture and laboratory integrated into six hours per week; length of laboratory sessions varies with weekly topics. Completion of a course in Cell Biology is strongly recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5454L - Cell Physiology Laboratory
This is a three-hour per week laboratory to accompany BIO 5454.

BIO 5504 - Mycology and Laboratory
This course is a general survey covering the morphology, reproduction, ecology and economic importance of fungi, including those of medical importance, with laboratory experience in their collection, cultivation, and identification. The course consists of three hours of lecture and three hours of laboratory per week. Prerequisite(s): BIO 3054 or equivalent and admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5504L - Mycology Laboratory
This is a three-hour laboratory to accompany BIO 5504.

BIO 5515 - Pathogenic Microbiology & Immunology & Lab
This course is a study of pathogenic bacteria, fungi and viruses, with emphasis on the processes leading to the development of disease symptoms, diagnoses and antibody-antigen reactions. It consists of three hours lecture and four hours laboratory per week. Completion of a course in Microbiology is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5524 - Aquatic Entomology & Lab
This course studies the taxonomy, morphology, ecology, and evolution of aquatic insects occurring in North America. The course consists of three hours of lecture and three hours of laboratory per week. A collection is required and additional laboratory time is often necessary. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5524L - Aquatic Entomology Laboratory
This is a three-hour per week laboratory to accompany BIO 5524.

BIO 5554 - Oklahoma Field Biology & Lab
This course will introduce students to the Oklahoma flora and fauna and the basic classification of the various groups of organisms. Students will learn collecting and preservation techniques and learn how to use field guides. The course will consist of a combined lecture/lab setting and include local field trips as well as several all-day or overnight trips. It consists of three hours of lecture and three hours of laboratory per week. Completion of a course in Ecology is strongly recommended. Prerequisite(s): Permission of Instructor

BIO 5622 - Methods Human Dissection & Prosection
This course includes instruction in techniques of dissection and prosection of the human body. All organ systems are studied with special reference to skeletal landmarks and to clinical significance. There are three laboratory hours and one recitation hour per week. Prerequisite(s): BIO 2504 or FNRL 2214 or FNRL 3214 or equivalent AND Permission of Instructor.

BIO 5633 - Scanning Electron Microscopy & Laboratory
This course is a study of the theory and principles of Scanning Electron Microscopy. Topics include sample preparation, critical point drying, sputter coating, and operation of scanning electron microscope (SEM). Laboratory exercises will enable students to become proficient in the operation of the SEM and supporting instrumentation. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5723 - Biometrics
This course will focus on univariate and selected multivariate statistical techniques used in Biology. Emphasis will be on data collection, presentation, hypothesis formation and testing. Computer data analysis will also be introduced. Completion of a course in statistics is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5734 - Ornithology and Laboratory
This course is a study of the birds of Oklahoma, their taxonomy, physiology, anatomy, ecology, distribution, behavior, and natural history. There are three lecture hours and a three-hour laboratory per week. Field trips are required. Completion of a course in Ecology and a course in Statistics are recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5743 - Population Genetics & Lab
This course is an advanced study of modern population genetic theory. Topics in this course include: estimating genetic variation within populations; the effects of genetic drift, mutation, selection, and gene flow on genetic variation; inbreeding; estimation of population structure; quantitative genetics; and human population genetics. This course consists of two hours lecture and three hours laboratory per week. Completion of a course in Evolution is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5754 - General Entomology & Laboratory
This course is an introduction to insects emphasizing functional anatomy and identification of specimens to family level, and exploring both basic and applied aspects of the discipline. It consists of three hours of lecture and three hours of laboratory per week. Completion of a course in Ecology or a course in Evolution is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

BIO 5754L - General Entomology Laboratory
This is the three-hour per week laboratory that accompanies BIO 5754.
**Graduate Course Descriptions**

**BIO 5763 - Biology Of Cancer**
This course is designed to develop students' understanding of the structure, function and reproduction of normal cells and how cancer cells are different. Classification and naming of neoplasms (tumors and cancers) and spread of cancer (invasion and metastasis) will be discussed. Physical, chemical and biological agents responsible for transformation and mechanisms of oncogenesis will be examined. The clinical aspect of cancer will be characterized and methods of treatment will be included. Completion of a course in Genetics is strongly recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

**BIO 5773L - Parasitology Laboratory**
This is a three-hour per week laboratory to accompany BIO 5773.

**BIO 5774 - Parasitology & Laboratory**
This course is a survey of animal parasites, including their taxonomy, life cycle, morphology, physiology, parasitic strategies. It consists of three hours lecture and three hours laboratory per week. Completion of a course in Cell Biology or a course in Microbiology is recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

**BIO 5812 - Teach & Learn in Sci Classroom**
The course will examine pertinent contributions from recent research in the area of teaching secondary science. The course focuses on research related to improving the teaching and learning of science, and on techniques and materials that meet the needs of secondary students. The course emphasizes integrating science and technology, and adapting instruction to the needs of diverse learners. Prerequisite(s): Six (6) hours of science courses and/or permission of instructor.

**BIO 5843L - Virology Laboratory**
This is the laboratory to accompany BIO 5843.

**BIO 5844 - Virology and Laboratory**
This course is a study of the nature and structure of viruses, their multiplication, and effects on the host cells. Special attention is given to the pathogenesis of viral diseases to the mechanism of host resistance, and to a survey of tumor and cancer causing viruses. There are three lecture hours and a three-hour laboratory per week. Completion of a course in Microbiology is strongly recommended. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

**BIO 5853 - General Methods Of Teaching Science**
This course is a study of different methods/approaches of teaching science (life and physical, grades 6-12) and current issues in science education for secondary science education majors. Curriculum includes individual experience involving application of methods and approaches learned in the course. It consists of two lecture hours and three laboratory hours per week. Prerequisite(s): BIO 5812 and six hours of science courses at the 3000 level or higher and permission of instructor.

**BIO 5853L - General Methods Of Teaching Science Laboratory**
This is a three-hour laboratory to accompany BIO 5853.

**BIO 5900 - Practicum In Biology**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**BIO 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Prerequisite(s): Admission to the Biology Graduate Program OR Permission of Instructor.

**BIO 5920 - Workshop in Biology**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**BIO 5930 - Individual Study In Biology**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**BIO 5940 - Field Study in Biology**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

**BIO 5950 - Internship In Biology**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**BIO 5960 - Institute In Biology**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

**BIO 5970 - Study Tour**
Credit will vary. Subject matter will vary within the department's field of study.

**BIO 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

**BIOMEDICAL ENGINEERING (BME)**
**Department of Engineering and Physics**

**BME 5223 - Biomedical Imaging**
This course will cover topics in physics related to medical instrumentation, image acquisition, and image processing methods used in biomedical imaging systems such as X-ray, X-ray computed tomography, ultrasound, and magnetic resonance imaging. Topics in medical imaging metrics used to evaluate the performance of the imaging systems will also be covered. Prerequisite(s): ENGR 3323 with a minimum grade of “C” and graduate standing.

**BME 5233 - Biomedical Instrumentation**
This course covers theories and techniques to detect, acquire, process, and display signals from living systems. Coverage of the principles, applications, and design of biomedical sensors/transducers, diagnostic and therapeutic devices will be provided. Electrical safety and FDA regulations will also be covered. Prerequisite(s): MATH 3103, ENGR 2303 and ENGR 2311 all with a minimum grade of “C” and graduate standing.

**BME 5243 - Modeling & Analysis of BME Sys**
The fundamentals of computer modeling and simulation of biomedical systems will be covered. Students will develop quantitative models of biomedical systems including biofluids, bioelectrical and biomechanical systems. Prerequisite(s): ENGR 1213, ENGR 2303, ENGR 2311, and BME 3113 all with a minimum grade of “C”. Graduate standing.

**BME 5343 - Biomechanics**
This course introduces the principles and application of mechanics (statics, dynamics, solid mechanics, fluid mechanics, and continuum mechanics) in biological and medical problems. Topics include cellular mechanics, hemodynamics, cardiovascular mechanics, ocular mechanics, musculoskeletal mechanics, and frontiers in biomechanics. Prerequisite(s): ENGR 2033 and MATH 3103 all with a minimum grade of “C”.

**BME 5900 - Practicum In Biomedical Engineering**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.
BME 5900 - Practicum in Biomedical Engr
Credit will vary from 1 to 3 hours. Subject matter will vary within the department's field of study.

BME 5910 - Seminar in Biomedical Engr
Credit will vary from 1 to 3 hours. Subject matter will vary within the department's field of study.

BME 5920 - Workshop in Biomedical Engr
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

BME 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

BME 5940 - Field Study in Biomed Engr
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

BME 5950 - Internship in Biomedical Engr
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

BME 5960 - Institute in Biomedical Engr
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

BME 5970 - Study Tour in Biomed Engr
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

BME 5980 - Graduate Project
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

BME 5990 - Thesis in Biomedical Engr
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CHEMISTRY (CHEM)
Department of Chemistry

CHEM 5103 - Biochemistry II
Metabolic pathways and their regulation are studied, emphasizing enzyme reactions and regulation in mammalian systems. Topics include energy pathways, synthetic pathways, and the balancing of tissue needs via hormonal regulation. Each student will complete a paper on the use of enzymes or related proteins in forensic investigations. The instructor and the student will collaborate on the selection of the research topic; the approach may be historical, molecular biological, or biochemical, but the work must include a hypothesis originated and developed by the student. Prerequisite(s): CHEM 3403; CHEM 3323 and BIO 2203 are strongly recommended.

CHEM 5454 - Advanced Instrument Analysis & Laboratory
This course is a detailed study of modern analytical instruments with emphasis on the theory, design, applications and interpretation of data obtained from these instruments. Instrumental methods used will include electroanalytical and thermal analysis, NMR, atomic absorption, emission, x-ray and Raman spectroscopy, radiochemistry and selected chromatographic methods. Prerequisite(s): CHEM 3454; CHEM 3602 or concurrent enrollment.

CHEM 5454L - Advanced Instrument Analysis Laboratory
This laboratory course accompanies CHEM 5454. Concurrent enrollment in CHEM 5454 is required.

CHEM 5533 - Nuclear Chemistry
This course provides a study of the phenomenon of radioactivity and its application in the solution of chemistry problems, generally in the areas of compositional analysis, nuclear medicine, and the dating of materials. Topics covered include the history of radiochemistry, nuclear analytical methods, health physics, and the development of an understanding of commonly-encountered nuclear and radiological materials. Prerequisite(s): (CHEM 2104 and CHEM 3323) or (CHEM 1315 and PHY 3103) or equivalents.

CHEM 5603 - Advanced Organic Chemistry
This graduate-level course provides the student with a more thorough understanding of organic chemistry beyond CHEM 3323 in the areas of organic synthesis, reaction mechanisms, and physical organic chemistry. Prerequisite(s): CHEM 3323.

CHEM 5900 - Practicum In Chemistry
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CHEM 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Prerequisite(s): CHEM 3323.

CHEM 5920 - Workshop in Chemistry
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

CHEM 5930 - Individual Study In Chemistry
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CHEM 5940 - Field Study in Chemistry
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

CHEM 5950 - Internship In Chemistry
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CHEM 5960 - Institute In Chemistry
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CHEM 5970 - Study Tour In Chemistry
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

CHEM 5990 - Thesis In Chemistry
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

CHINESE (CHIN)
Department of Modern Languages, Literature & Cultural Studies

CHIN 5900 - Practicum in Chinese
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

CHIN 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary from within the department’s field of study.

CHIN 5920 - Workshop in Chinese
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.
Graduate Course Descriptions

CHIN 5930 - Individual Study In Chinese
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CHIN 5940 - Field Study In Chinese
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

CHIN 5950 - Internship In Chinese
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

CHIN 5960 - Institute In Chinese
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

CHIN 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

CHIN 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

CRIMINAL JUSTICE (CJ)

School of Criminal Justice

CJ 5013 - Juvenile Justice Systems Management And Administration
The juvenile justice system in America will be explored in depth from juvenile intake into the system to final disposition. Juvenile and police relations, the juvenile court process, juvenile law, juvenile rights, and the organizations, management and administration of juvenile bureaus will be covered. Operating juvenile systems will be studied and compared both on a national and international basis.

CJ 5023 - Community Oriented Policing
This course examines police and community collaboration to solve and prevent crime with a focus on police/community relations.

CJ 5033 - Critical Issues In Criminal Justice
The object of this course is to present to the student major critical issues facing the criminal justice system in America. Major emphasis will be placed on the making of criminal law, police power in a democratic society, problems within the court and the correctional process in America. The course intends to develop an understanding in depth on the part of the student concerning major critical issues in the area of criminal justice.

CJ 5043 - Modern Criminal Investigations
This course is designed to combine the practical and theoretical aspects of criminal investigations; develop an analytical and practical understanding of the investigative process and explore future predictions of crime solving technology and techniques from a law enforcement perspective.

CJ 5053 - Principles Of Management In Criminal Justice Organizations
The criminal justice process in America will be viewed in depth from a systems approach. Areas to be covered are: (1) criminal justice as a manageable system, (2) systems as an approach to management, (3) systems management modeling, (4) criminal justice organizational consideration, and (5) making the criminal justice model go systematically.

CJ 5063 - Innovation In Corrections And Penology
This course will be designed to explain the needs for research and the interpretation of data in the criminal justice system. Emphasis will be placed on planning, interpretation, implementation, and evaluation of programs in corrections and penology. The remainder of the course will focus on new and innovative programs in corrections and penology.

CJ 5073 - Elements Of Criminal Offenses
This course will examine the foundations of American jurisprudence and the enactments of criminal offense statutes. The elements of and defenses to include offenses, offenses against persons, crimes against persons, crimes against morality, alcohol/drug offenses, white collar/organized crime, offenses against public health, offense against public order and offenses against justice and public order will be reviewed in detail as well as other miscellaneous crimes, statutes and important appellate court cases.

CJ 5093 - Police Systems Management And Administration
The police process in America will be viewed from a systems approach. Police activity represents only one aspect of the total criminal justice process. Areas to be covered: (1) police systems management and administration, (2) behavioral science application to police management, (3) police management and administration tasks, (4) systems analysis for police, (5) organizational development and managerial functions, and (6) police productivity.

CJ 5113 - Research Methods In Criminal Justice
Research Methods in Criminal Justice is designed to acquaint students with quantitative and qualitative research methodologies, including an in-depth analysis of the following: conceptualization of research, types of sampling strategies, data collection methods, research design and proposal writing. Prerequisite(s): CJ 3643 and (SOC 3633 or CJ 3633) with a minimum grade of “C” or permission of the instructor.

CJ 5123 - The Jury System
This course is designed to provide an in-depth study of the processes and procedures of a jury trial in the American criminal justice system. The course will cover: the origin of juries, how jury panels are developed, how juries are selected, the criminal trial court procedures during trial, the legal right of an accused during a trial, a brief overview of the appellate court system for criminal cases.

CJ 5133 - Correctional Systems Management & Administration
The correctional process will be viewed from a systems approach since it represents one element in the total criminal justice process. Attention will be given to the correctional process and its relationship to other institutional and organizational elements within the total Criminal Justice system.

CJ 5143 - Family Violence Investigations
This course will cover law enforcement/social service agency investigations of family violence and provide an overview of the many facets, characteristics and theories of family violence, including but not limited to, child abuse/neglect, elder abuse/neglect, domestic violence (spousal & non-spousal), dating violence and date rape.

CJ 5153 - Research and Planning
This course will examine the development of criminal justice policy and procedures using secondary data analysis, crime mapping, and open source data to establish the criterion for change and allocation of resources.
**CJ 5203 - Dangerous/Violent Offenders**
This course presents the characteristics, behaviors, and attitudes of violent offenders with particular emphasis on sex offenders. The areas of domestic violence, pedophilia, sexual assault, and mass and serial murder comprise separate sections of the course. Prerequisite(s): SOC 3633 or CJ 3633.

**CJ 5213 - Drug Dependency & Crime**
This course examines major categories of drugs that are sold and abused in America. The history of drug use, legislation and enforcement, sociology and psychology of drug abuse and drug prevention/treatment will be included.

**CJ 5223 - Design and Analysis in Criminal Justice Research**
Design and Analysis in Criminal Justice Research will provide skills needed for advanced research and analysis of data related to crime and intelligence gathering. Mathematical and statistical models will be used to synthesize, evaluate, and determine limitations of data. Additional topics include ethical concerns and computer use in data analysis. Prerequisite(s): CJ 4113 or SOC 4043 or SOC 4773.

**CJ 5233 - Writing & Evaluating Research**
This course examines advanced principles and procedures of scholarly research in the criminal justice field.

**CJ 5243 - Intro to CJ Statistics**
Introduction to Criminal Justice Statistics is designed as an introduction to statistics and their application in criminal justice research. The focus of the course is to help students identify and understand how statistics are used to describe data and make inferences about the relations between variables. Students learn descriptive techniques and statistical procedures for decision-making. Prerequisite(s): Enrollment open to Criminal Justice Management & Administration and Crime and Intelligence Analysis majors only.

**CJ 5253 - Crime & Intelligence Analysis**
Crime and Intelligence Analysis provides the foundational elements of crime and intelligence analysis principles and methods. Through structured analytic techniques, students will apply strategies to collect, collate, analyze, and disseminate criminal and intelligence information to meet the current needs of the law enforcement and intelligence communities. Utilizing expert judgement and intuition, students will learn to challenge their own thinking and rigorously test their conclusions.

**CJ 5323 - Victimization**
This course is designed to provide a complete and integrated study of victimization, including a comprehensive review of the history and theories of victimology, the interaction of crime victims with others in the criminal justice system, an in-depth examination of various types of victimization, an examination of current as well as classical works in the field and a focus on victim services. Prerequisite(s): Graduate standing.

**CJ 5333 - Comparative Criminal Justice Systems**
Comparative Criminal Justice Systems will review the measure and nature of crime across nations, including law enforcement functions, criminal procedure, courts, sentencing and punishment, juvenile justice, transnational crime, terrorism and assessing the future of transnational crime and justice. Prerequisite(s): CJ 1413.

**CJ 5353 - Environmental Criminology and Crime Analysis**
Environmental Criminology and Crime Analysis involves the study of crime opportunities and criminal events as they relate to environmental design and the formal and informal social control of space. The course will explore physical and social characteristics of movement patterns that bring offenders and victims together. Students will review the main environmental theories including situational crime prevention, routine activities theory, crime prevention through environmental design, and crime pattern theory. Prerequisite(s): CJ 4113 and SOC 3633 or CJ 3633.

**CJ 5413 - Delinquent Child Law**
Delinquent Child Law is a in-depth study of the evolution of the laws affecting juveniles, Oklahoma and federal juvenile statutes, development of the juvenile legal system and processes and legal procedures of juvenile courts in Oklahoma and the United States. Prerequisite(s): Graduate standing.

**CJ 5423 - Child Abuse And Neglect Law**
This course is designed to give the student an overview of the development of unique terminology, laws, institutions, social service agencies, police units, procedures and courts to protect abused/neglected children in Oklahoma and the United States.

**CJ 5433 - Oklahoma Juvenile Correctional System**
This course is a comprehensive survey of the Oklahoma juvenile correction system. Included will be a review of the statutes creating, regulating and dictating the agency, institutions, infrastructure, processes, treatment procedures and personnel of various institutions and agencies. Prerequisite(s): CJ 4413, 4423, SOC 4573.

**CJ 5443 - International Juvenile Systems**
This course provides an introduction to the investigation of computer crime and the forensic examination of digital evidence.

**CJ 5523 - Cyber Crime**
This course presents the characteristics, behaviors, and attitudes of white collar crime opportunities and criminal events as they relate to environmental design and the formal and informal social control of space. The course will explore physical and social characteristics of movement patterns that bring offenders and victims together. Students will review the main environmental theories including situational crime prevention, routine activities theory, crime prevention through environmental design, and crime pattern theory. Prerequisite(s): CJ 4113 or SOC 4043 or SOC 4773.

**CJ 5533 - White Collar Crime**
This course is designed to give the student an overview of various international juvenile systems and explore how those countries deal with juvenile delinquents and other juveniles in comparison to juvenile court procedures and laws in the United States. Prerequisite(s): CJ 4413, 4423, 4433, SOC 4573.

**CJ 5534 - Technologies in Crime Analysis**
Technologies in Crime Analysis explore the analytical procedures, software, and technologies, including Geographic Information Systems (GIS), used at every level of criminal justice in the development of patterns and trends essential to the decision making process and in determining the value of intelligence data gathered by various sources. Prerequisite(s): CJ 4113 or SOC 4043 or SOC 4773.
CJ 5553 - Crime Analysis Fieldwork
Crime Analysis Fieldwork course has two components: work in the field of study and classroom work. Students are required to complete 80 hours of internship service in the discipline in addition to their course requirements. The fieldwork experience demonstrates the practical application of knowledge and skills gained in the Crime and Intelligence Analysis program. The course work consists of weekly class meetings and the following: academic literature reviews, data cleaning and analysis preparation, and creation of an analysis plan utilizing software. Prerequisite(s): CJ 5223. Enrollment open to Crime and Intelligence Analysis majors only.

CJ 5633 - Terrorism & Homeland Security
This course provides an overview of the historical and current context of international and domestic terrorism using a criminological and criminal justice framework.

CJ 5643 - Advanced Crime Theory
This course examines a range of criminological theories pertaining to offending populations and the correlates of crime. Prerequisite(s): SOC 3633 or CJ 3633.

CJ 5663 - Inside-out Prison Exchange
The Inside-Out Prison Exchange is an opportunity for a small group of students from the University of Central Oklahoma and a group of residents of a correctional facility to exchange ideas and perceptions about crime and justice, the criminal justice system, corrections, and imprisonment. It is a chance for all participants to gain a deeper understanding of the criminal justice system through the marriage of theoretical knowledge and practical experience achieved by weekly meetings extended throughout the semester.

CJ 5713 - Community-Based Corrections
Community-Based Corrections is designed to give the student an in-depth overview of probation, parole, halfway houses, work furlough programs and other comprehensive aspects of community-based corrections in Oklahoma and the United States. Prerequisite(s): CJ 3703.

CJ 5723 - Critical Issues In Corrections
Critical Issues in Corrections is designed to give the student a comprehensive survey of the controversial issues in Oklahoma and American corrections, including but not limited to: rehabilitation v. punishment, shaming, electronic monitoring, boot camps, privatization, community supervision v. incarceration, drug offender incarceration v. treatment, white collar offenders, death penalty for adults and juveniles, coed institutions, incarceration of pregnant women, and other issues in the field of corrections. Prerequisite(s): CJ 3703.

CJ 5813 - Oklahoma Adult Correctional System
This course is a comprehensive survey of the Oklahoma adult correction system. Included will be a review of the statutes creating, regulating and mandating the infrastructure, processes, procedures and personnel of various institutions and agencies within the Oklahoma adult correction system. Prerequisite(s): CJ 4063, 4703, 4723.

CJ 5823 - International Correction Systems
This course is a survey of various correction systems in the world, including England, France, Sweden, Japan, Russia, China and will include a comparison to corrections in Oklahoma and the United States. The correction systems will be explored in the context of the political, historical, organizational and procedural context for the various countries. Prerequisite(s): CJ 4703, 4713, 4723, 4813.

CJ 5833 - Pro-seminar in Crim Justice
Pro-seminar in Criminal Justice provides an in-depth examination of criminological theories and the relationships between theory and crime. The course will focus primarily on the existing analysis of intelligence and crime data and culminate in a project selected in cooperation with field experts. Prerequisite(s): CJ 5553.

CJ 5900 - Practicum In Criminal Justice
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Supervised practical application of previously studied theory. Limited to four semester hours per enrollment.

CJ 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CJ 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

CJ 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Study completed on an individual basis covering material specified by the instructor.

CJ 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

CJ 5950 - Internship In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CJ 5960 - Institute In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Assignments are given and students receive normal letter grades.

CJ 5970 - Study Tour In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in professional field by an advanced or graduate student.

CJ 5980 - Thesis In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

CJ 5990 - Pro-seminar in Criminal Justice
Pro-seminar in Criminal Justice provides an in-depth examination of criminological theories and the relationships between theory and crime. The course will focus primarily on the existing analysis of intelligence and crime data and culminate in a project selected in cooperation with field experts. Prerequisite(s): CJ 5553.

CJ 5990 - Practicum In Criminal Justice
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Supervised practical application of previously studied theory. Limited to four semester hours per enrollment.

CJ 5990 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CJ 5990 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

CJ 5993 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Study completed on an individual basis covering material specified by the instructor.

CJ 5994 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

CJ 5995 - Internship In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CJ 5996 - Institute In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Assignments are given and students receive normal letter grades.

CJ 5997 - Study Tour In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CJ 5998 - Thesis In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

CJ 5999 - Pro-seminar in Criminal Justice
Pro-seminar in Criminal Justice provides an in-depth examination of criminological theories and the relationships between theory and crime. The course will focus primarily on the existing analysis of intelligence and crime data and culminate in a project selected in cooperation with field experts. Prerequisite(s): CJ 5553.

CJ 5999 - Practicum In Criminal Justice
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Supervised practical application of previously studied theory. Limited to four semester hours per enrollment.

CJ 5999 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CJ 5999 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

CJ 5999 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Study completed on an individual basis covering material specified by the instructor.

CJ 5999 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

CJ 5999 - Internship In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CJ 5999 - Institute In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Assignments are given and students receive normal letter grades.

CJ 5999 - Study Tour In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CJ 5999 - Thesis In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

CJ 5999 - Pro-seminar in Criminal Justice
Pro-seminar in Criminal Justice provides an in-depth examination of criminological theories and the relationships between theory and crime. The course will focus primarily on the existing analysis of intelligence and crime data and culminate in a project selected in cooperation with field experts. Prerequisite(s): CJ 5553.

CJ 5999 - Practicum In Criminal Justice
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Supervised practical application of previously studied theory. Limited to four semester hours per enrollment.

CJ 5999 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CJ 5999 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

CJ 5999 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Study completed on an individual basis covering material specified by the instructor.

CJ 5999 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

CJ 5999 - Internship In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CJ 5999 - Institute In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Assignments are given and students receive normal letter grades.

CJ 5999 - Study Tour In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CJ 5999 - Thesis In Criminal Justice
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

COMPUTER SCIENCE (CMSC)

Department of Computer Science

CMSC 5023 - Programming Languages
This course provides a study of the underlying concepts of programming languages such as automata, grammars, translation, bindings, scope, data types, control, subprogramming, concurrency, and exception handling. Languages representing contrasting paradigms are studied. Prerequisite(s): CMSC 3613; admission to the graduate program.

CMSC 5033 - Concepts Of Artificial Intelligence
This course covers the basic concepts and techniques of artificial intelligence or intelligent systems. It includes an introduction to some of the software packages that are used to develop expert systems. Other issues of importance in this course are natural language, pattern recognition, search strategies, knowledge representation and logical inference. Prerequisite(s): CMSC 3613.
CMSC 5043 - Applications Database Systems
This course covers the integration of theory and practice in the use of current database systems and the access of those systems. The course covers the relational and E-R models for database organization. Topics included in the course are query languages (e.g. SQL), database integrity and security, file access methods, query processing, transaction processing, and backup/recovery. Prerequisite(s): CMSC 2613 and MATH 2313 and (STAT 2103 or 2113 or 4113) and graduate standing.

CMSC 5053 - Operating Systems
This course is a study of operating system concepts including concurrent processes, mutual exclusion techniques, deadlock, real and virtual memory management, job scheduling, auxiliary storage management, network operating systems and multiprocessing. Prerequisite(s): CMSC 3613.

CMSC 5063 - Networks
This course is a study of local and wide area networks and their implementations. Included is the theory governing layered networking architectures, the ISO-OSI communications interface, the TCP/IP protocol, packet transmission, error-correction techniques, addressing and routing, and the use of communications software. Prerequisite(s): CMSC 3613.

CMSC 5073 - Translator Design
Translator Design introduces students to the principles, tools and techniques used in designing a programming language compiler. Topics covered include lexical, syntax, and semantic analysis, finite automata, regular expressions, LL and LR grammars, type systems and checkers, code generation, interpreters, optimization, and code improvement. Prerequisite(s): CMSC 3613 and graduate standing.

CMSC 5113 - Structured Design
This course covers the elements of a discipline of program and systems design. Emphasis will be placed on the architecture of programs and systems rather than programming. Prerequisite(s): CMSC 3613.

CMSC 5123 - Advanced Microcomputer Applications
This course is a survey of the installation and programming of microcomputers using microcomputer based operating systems with emphasis on maintaining tree structured directories, programming batch files, controlling i/o redirection, working with serial and parallel ports, using internal operating system commands and utilities, and installing vendor provided software.

CMSC 5133 - Theory Of Data Base Systems
This course covers the concepts, principles, implementation practices, and guidelines for the selection and installation of data base systems. Topics include choosing a dictionary, the relational approach, the hierarchical approach, and the network approach. There will be some discussion of security and integrity comparison. Prerequisite(s): CMSC 4003 or CMSC 5043.

CMSC 5193 - Introduction to Robotics
This course discusses the programming of mobile robots. It includes applications of robots, sensors, actuators, types of locomotion, robotic programming (including multi-threaded programming, behavior-based arbitrator programming, and the hybrid deliberative/reactive model) and simultaneous location and mapping (SLAM). Prerequisite(s): CMSC 3613.

CMSC 5243 - Artificial Intelligence
This course is a study of the basic concepts and techniques of artificial intelligence or intelligent systems. Some of the topics covered are search techniques, heuristics, expert systems, systems of logical inference, methods of representing knowledge, and AI programming. Prerequisite(s): CMSC 4133 or 5033.

CMSC 5273 - Theory of Computing
Theory of Computing is a study of computation theory encompassing three broad categories: formal languages and automata theory, computability theory, and complexity theory. The topics covered include Turing machines, finite automata, nondeterminism, pushdown automata, decidability, and NP-completeness. Prerequisite(s): CMSC 3613 with a minimum grade of "C".

CMSC 5283 - Software Engineering I
This course covers the application of engineering and management disciplines to computer software projects. Topics discussed are the software lifecycle, CASE tools, requirement engineering, software models and architectures, software design and development, testing and validation, maintenance and evolution, project organization, management and cost estimation, and software quality assurance and risk analysis. Prerequisite(s): CMSC 2613 and MATH 2313 and (STAT 2103 or 2113 or 4113).

CMSC 5303 - Mobile Application Programming
This course examines theory and practice of server-side programming and mobile development platform is included. Prerequisite(s): CMSC 3613 with a minimum grade of "C".

CMSC 5323 - Computer and Network Security
This course examines principles of computer and network security. Topics include security principles, software security, web security, cryptography and its applications, network security, and privacy issues. Students will learn practical knowledge and skills to identify and defend against security threats. Prerequisite(s): CMSC 3613.

CMSC 5373 - Web Server Programming
This course examines theory and practice of server-side programming for World Wide Web, including study on presentation logic, business logic, session control, and database management. The course also includes extensive practice in a specific server-side programming language. Prerequisite(s): CMSC 3103 or SE 3103.

CMSC 5423 - Software Engineering II
This course covers all aspects of software engineering with emphasis on requirements elicitation and analysis, software verification and validation, and project management. Prerequisite(s): CMSC 4283 or SE 4283 or CMSC 5283.

CMSC 5433 - Software Architecture & Design
This course covers software design with emphasis on architectural design, reuse of software architectures, and patterns. Prerequisite(s): CMSC 4283 or SE 4283 or CMSC 5283.

CMSC 5900 - Practicum In Computing Science
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CMSC 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.
Graduate Course Descriptions

CMSC 5920 - Workshop in Computer Sci
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

CMSC 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. rerequire(s): Permission of instructor.

CMSC 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

CMSC 5950 - Internship in Computer Science
Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CMSC 5960 - Institute In Computing Science
Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study. rerequire(s): Permission of instructor.

CMSC 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

CMSC 5980 - Graduate Project
A contemporary problem provided by business and industry and selected with consideration of the interests and abilities of the individual student. Prerequisite(s): Permission of instructor.

CMSC 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study. rerequire(s): Permission of instructor.

CREATIVE STUDIES (CSDY) Department of English

CSDY 5013 - Foundations Creative Writing
Foundations of Creative Writing provides students with the academic, creative, and professional skills necessary to succeed as graduate students in creative writing and as professional creative writers. Topics covered in this course include techniques and methodologies of criticism and research; strategies for editing and marketing creative work in professional venues; and approaches to creative writing pedagogy.

CSDY 5113 - Pub Pro: Editing & Marketing
Publication Procedures: Editing and Marketing presents techniques for revising and editing creative work for publication and strategies for marketing this work. Over the course of the semester, students edit and revise their own work and report on the literary magazine, online literary, and book publishing markets. This course also covers the fundamentals of professional development, allowing students to prepare the necessary materials for both job searches and searches for agents and publishers.

CSDY 5273 - Writing The Novel
This is a continuation of CSDY 3593 and 4253, aiding the student in the final structuring and composition of his writing project. A third 100 pages of polished copy is required and student work is analyzed against exemplary materials for publication submissions.

CSDY 5313 - Writing Mystery/Adventure
The student will read popular and classic Mystery/Adventure stories and write creative papers in both genres. The student will research and compare historical and contemporary works, and prepare a scholarly paper analyzing additional works of a contemporary author. Prerequisite(s): CSDY 3573.

CSDY 5353 - Creating The Poem
Students will learn to analyze poetry in terms of tone, persona, literal and figurative imagery, arrangement, symbolism, allusion, myth and archetype, sound and devices used to achieve the desired effect, poetic forms, and various styles. Students will write poetry in many different forms and styles.

CSDY 5413 - Writing For Children
Writing for children allows students to try writing for various age groups from infants through young adults. The course looks at the history of writing for children and the psychology of learning to read. Award winning books and authors will be studied, and the habits of successful writing will be explored.

CSDY 5423 - Writing Comedy and Satire
Writing Comedy and Satire provides students with a comprehensive overview of contemporary comic and satiric writing. Students enrolled in this course will read contemporary comic and satiric literature, will study and practice the techniques of effective comic and satiric writing, and will produce original comic and satiric works in a variety of genres.

CSDY 5443 - Writing The Contemporary Novel
The student will read popular and bestselling novels and write the first chapter of a novel. The student will read and prepare a report analyzing a contemporary novel. The graduate student will read and prepare two reports analyzing two contemporary novels. Prerequisite(s): CSDY 3573.

CSDY 5513 - Playwriting
The student will read popular play scripts, view live play productions, and write creatively in the dramatic genre. The graduate student will view additional live play productions and produce 50% more creative manuscript pages. Prerequisite(s): CSDY 3573.

CSDY 5523 - Screenwriting
The student will read contemporary screenplays, view popular movies, and write creatively in the screenplay genre. The graduate student will view and analyze additional movies and produce 50% more creative manuscript pages. Prerequisite(s): CSDY 3573.

CSDY 5533 - Writing For Television
The student will read popular television scripts, view and analyze television shows, and write creatively in the television genre. The graduate student will view and analyze additional television shows, and produce 50% more creative manuscript pages. Prerequisite(s): CSDY 3573.

CSDY 5553 - Writing For Movies/TV/Stage
Writing for Movies, Television and Stage is an intensive, workshop-based creative writing course that provides students with a comprehensive overview of the history, composition, revision and marketing of dramatic writing, with specific attention to the writing of screenplays, teleplays and stage plays.

CSDY 5553 - Writing SciFi/Fantasy
Writing Science Fiction and Fantasy is an intensive, workshop-based creative writing course that provides students with a comprehensive overview of the history, composition, revision and marketing of works of science fiction and fantasy literature.

CSDY 5723 - Writing Comic Books and Graphic Novels
Writing Comic Books and Graphic Novels is an intensive, workshop-based creative writing course that provide students with a comprehensive overview of all aspects of the history, composition, revision, and marketing of comic books and graphic novels. This course may be taken three times for credit.
CSDY 5753 - Publishing & Editing
Publishing & Editing affords students a real-world opportunity to learn strategies and techniques for soliciting manuscripts, judging submissions, selecting, editing, negotiating editor-author relations, designing, laying out, proofing, advertising, promoting, and distributing academic and/or literary journals. This course is cross-listed with ENG 5753. The course, “Publishing and Editing” may be taken a maximum of two times for credit, whether taken under ENG, CSDY or a combination.

CSDY 5900 - Practicum in Creative Studies
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

CSDY 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.

CSDY 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

CSDY 5930 - Individual Study
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans: conferences, oral and written reports.

CSDY 5940 - Field Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

CSDY 5950 - Internship In Creative Studies
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

CSDY 5960 - Institute In Creative Studies
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

CSDY 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

CSDY 5980 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

CSDY 5990 - Practicum in Creative Studies
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

CTWD 5253 - Safety, Organization, & Management of CTWD
The Safety, Organization, and Management of Career, Technical, and Workforce Development course focuses on the principles, philosophies, and rationale of safety, organization, and program management of the Career, Technical, and Workforce Development classroom and laboratory/clinical environments.

CTWD 5303 - Workforce Education
This course provides the student with an overview of workforce education and workforce development. Included will be areas such as what a productive workforce is, necessary skill sets for productive employees to meet the needs of the workplace, and the necessity of investments in life-long learning that will foster economic development.

CTWD 5352 - Accommodating Special Needs Students
This course will provide the participant with an explanation of the occupational instructor’s roles and responsibilities in special education students’ Individualized Education Programs (IEP). In addition, a discussion of the “how-to” for accommodating instruction, media, materials, equipment, work stations and facilities will be provided. Finally, securing work-site learning opportunities and job placement strategies will be discussed. Prerequisite(s): OCTE 4253.

CTWD 5613 - Managing a BITE Program
This course is designed to assist students with the management techniques to successfully facilitate a project-based Business and Information Technology Education (BITE) program.

CTWD 5622 - Intergration & Transition Opportunities
This course is designed to assist occupational and technical educators to integrate academics and to implement education-to-employment activities into their programs. It explains legislation, outlines employers’ entry-level worker goals, reviews education-to-employment experiences at various grade levels, and offers strategies for integrating more academics into vocational programs. Prerequisite(s): OCTE 3023.

CTWD 5631 - Legal/Professional Issues in CTWD
This course provides an examination of legal and professional issues facing contemporary Career, Technical, and Workforce Development teacher/trainer.

CTWD 5663 - Career Tech Finance
This course presents concepts and bases for funding public career and technology educational programs. Participants in the course will analyze funding sources, processes, distributions, and accountability as well as identify accounting practices and requirements.

CTWD 5853 - Methods of Teaching for CTWD
This course provides for the examination of the selection and implementation of instructional strategies for Career, Technical, and Workforce Development.

CTWD 5900 - Practicum in CTWD
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

CTWD 5910 - Seminar/Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

CTWD 5920 - Workshop in CTWD
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

CTWD 5930 - Individual Study in CTWD
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

CAREER, TECHNOLOGY, WORKFORCE DEVELOPMENT (CTWD)

Department of Adult Education & Safety Science

CTWD 5082 - Career & Technology Student Organizations
This course will focus on the development of a career and technology student organization (CTSO) to serve the needs of the students enrolled in career, occupational, and technology education programs by infusing employability skills, leadership skills, and peer relationship building.

CTWD 5213 - History & Philosophy of CTWD
This course examines the history and philosophies associated with the CTWD in the United States and Oklahoma, and the theories that have helped develop the ideology.
CTWD 5940 - Field Study in CTWD
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CTWD 5950 - Internship in CTWD
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CTWD 5960 - Institute in CTWD
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CTWD 5970 - Study Tour in CTWD
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CTWD 5980 - Graduate Project in CTWD
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

CTWD 5990 - Thesis in AESS
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

DANCE (DANC)
Department of Dance

DANC 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

DANC 5940 - Field Study in Dance
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

DANC 5960 - Institute In Dance
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

DESIGN (DES)
Department of Design

DES 5011 - Design Orientation
This course provides a basic orientation to the MFA Design program. Prerequisite(s): Enrollment is open to graduate design majors only.

DES 5043 - Design Theory
Taken in the first semester, this course helps students identify important aspects of the current design landscape. Subject matter provides students with the analytical tools needed to investigate the theoretical framework underlying contemporary design. Works by important design theorists and critics will be studied in order to identify methodological approaches and develop analytical skills. Students will pursue a reflective and philosophical interpretation of contemporary visual communication. Prerequisite(s): Concurrent enrollment in DES 5206 is required. Permission of the MFA in Illustration program director is required. Enrollment open to graduate Illustration majors only.

DES 5113 - History of Graphic Design I
This course is a survey of the history of art and graphic design and their shared histories from Victorian (1900’s) to WWI (1945) including art and design movements, styles, furniture, artists, and designers. The student will present a major project in historical research to the Design Graduate Committee for review. Prerequisite(s): Permission of the instructor. Enrollment open to design majors only.

DES 5123 - History of Graphic Design II
This course is a survey of the development of the history of art and graphic design and their shared histories from Victorian (1900’s) to WWI (1945) including art and design movements, styles, furniture, artists, and designers. The student will present a major project in historical research to the Design Graduate Committee for review. Prerequisite(s): Permission of the instructor. Enrollment open to design majors only.

DES 5133 - History of Graphic Design III
This course is a survey of the development of the history of art and graphic design and their shared histories from 1945 to present day including art and design movements, styles, furniture, artists, and designers. The student will present a major project in historical research to the Design Graduate Committee for review. Prerequisite(s): Permission of the instructor. Enrollment open to design majors only.

DES 5143 - History of Illustration
This course is a survey of the development of the history of illustration from the Victorian era to present. This course covers the development of illustration from a commercial to editorial standpoint in addition to the discussion of prominent illustrators and illustration styles past and present. Prerequisite(s): Permission of the MFA in Illustration program director is required. Enrollment open to graduate Illustration majors only.

DES 5163 - Business of Illustration
This course is an introduction to the entrepreneurial aspects of design and illustration. This workshop style course introduces fundamental concepts of the business of design including business plan development, legal structures, financial statements, pricing, marketing and sales. The course will focus on the needs of freelance designers, independent illustrators, and small design studios. Prerequisite(s): Permission of the MFA in Illustration program director is required. Enrollment open to graduate Illustration majors only.

DES 5206 - Graduate Illustration I
This course is an introductory graduate course in the materials, methodologies, and general concepts used in illustration practice. Prerequisite(s): Concurrent enrollment in DES 5043 is required. Permission of the MFA in Illustration program director is required. Enrollment open to graduate Illustration majors only.

DES 5222 - Writing & Research for Design
This course provides a specialized introduction to writing and research for design. Projects offer a focus in creative problem solving and basic research techniques. Prerequisite(s): Enrollment open to graduate design majors only.

DES 5293 - Design Studio I
This course provides a study in the application of principles, philosophies, materials, and production of design. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. Prerequisite(s): Permission of graduate program advisor. Enrollment open to graduate design majors only.

DES 5306 - Graduate Illustration II
This course is a graduate studio course will focus on accurately portraying the physical structure of the human form. Students will work to produce illustrations with greater integrity of form, fluidity of movement, and accuracy of weight distribution in the figure. Prerequisite(s): DES 5206. Concurrent enrollment in DES 5383 is required. Permission of the MFA in Illustration program director is required. Enrollment open to graduate Illustration majors only.

Graduate Course Descriptions
DES 5313 - Typography Studio
This course provides advanced study in the application of principles, philosophies, materials, and production of typographic design. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. This course may be repeated for credit. Prerequisite(s): Permission of Graduate Advisor. Enrollment is open to Graphic Design majors only.

DES 5383 - Thesis Development
This course helps students develop the conceptual framework for their thesis research. Taken in the second semester, this course is intended to facilitate the transition from the pursuit of technical expertise into the pursuit of an individual visual language. Students are expected to consider theoretical perspectives covered in their first semester; however, student will focus on their unique point of view to identify goals for their research and develop a preliminary proposal. Prerequisite(s): Concurrent enrollment in DES 5306 is required. Permission of the MFA in Illustration program director is required. Enrollment is open to graduate Illustration majors only.

DES 5633 - Visualization Studio
This course provides advanced study in the application of principles, philosophies, materials, and production of computer graphics. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. Prerequisites(s): DES 5293. Enrollment open to graduate design majors only.

DES 5406 - Graduate Illustration III
This course provides advanced study in creative problem solving techniques, the application of principles, philosophies, materials, and production of design. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. Prerequisite(s): DES 5293. Enrollment open to graduate design majors only.

DES 5423 - Computer Graphics Studio
This course provides advanced study in the application of principles, philosophies, materials, and production of computer graphics. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. This course may be repeated two times for credit. Prerequisite(s): Permission of instructor.

DES 5433 - Contemporary Illustration Practice
This course puts general and theoretical concepts covered in the business of illustration into practice. The primary objective of this course is assisting students in identifying appropriate targets for their work; however, graduate peers and the instructor will also provide guidance in the development of illustrations for that target. Students are required to apply for and obtain an illustration commission in the public or commercial sphere to be completed before graduation. Prerequisite(s): Concurrent enrollment in DES 5406 is required. Permission of the MFA in Illustration program director is required. Enrollment is open to graduate Illustration majors only.

DES 5443 - Illustration Studio
This course provides advanced study in the application of principles, philosophies, materials, and production of illustration. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. This course may be repeated two times for credit. Prerequisite(s): Permission of instructor.

DES 5483 - ClockTower Studio
This course is a working design studio managed and staffed by graphic design majors who work with campus and community clients, printers, and a team of designers. Students make formal presentations of concept proposals and solutions to the client for approval. This course may be repeated two times for credit. Prerequisite(s): Permission of instructor.

DES 5493 - Design Research I
In this course students conduct academic research in the discipline of design and add to the body of existing literature. Prerequisite(s): PTE 5013 and 5413. Enrollment open to graduate design majors only.

DES 5506 - Graduate Illustration IV
This course provides advanced study in the application of principles, philosophies, materials, and production of typographic design. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. Prerequisite(s): Permission of instructor.

DES 5513 - History of Interior Design I
This course is a survey of the development of the history of art and interior design from antiquity through the Renaissance including design movements, styles, furniture, artists, and designers. The student will present a major project in historical research to the Design Graduate Committee for review, guidance, and evaluation. Prerequisite(s): Permission of instructor.

DES 5523 - History of Interior Design II
This course is a survey of the development of the history of art and interior design from the Renaissance to 1900 including design movements, styles, furniture, artists, and designers. The student will present a major project in historical research to the Design Graduate Committee for review, guidance, and evaluation. Prerequisite(s): Permission of instructor.

DES 5533 - History of Interior Design III
This course is a survey of the development of the history of art and interior design from 1900 to present including design movements, styles, furniture, artists, and designers. The student will present a major project in historical research to the Design Graduate Committee for review, guidance, and evaluation. Prerequisite(s): Permission of instructor.

DES 5543 - Design Research II
In this course students conduct quantitative academic research in the discipline of design and add to the body of existing literature. Prerequisite(s): DES 5493, PTE 5013 and 5413. Enrollment open to graduate design majors only.

DES 5553 - History of Interior Design IV
This course is a survey of the development of the history of art and interior design from 1900 to present including design movements, styles, furniture, artists, and designers. The student will present a major project in historical research to the Design Graduate Committee for review, guidance, and evaluation. Prerequisite(s): Permission of instructor.

DES 5593 - Design Studio III
This course helps students develop the conceptual framework for their project. This course is intended to facilitate the transition from the pursuit of technical expertise into the pursuit of an individual visual language. Students are expected to consider theoretical perspectives covered in their first semester; however, student will focus on their unique point of view to identify goals for their research and develop a preliminary proposal. Prerequisite(s): Concurrent enrollment in DES 5306 is required. Permission of the MFA in Illustration program director is required. Enrollment is open to graduate Illustration majors only.

DES 5723 - Design Studio IV
This course provides advanced study in the application of principles, philosophies, materials, and production of design. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. Prerequisite(s): Concurrent enrollment in DES 5723 and DES 5823 are required. Permission of the MFA in Illustration program director is required. Enrollment is open to graduate Illustration majors only.
Graduate Course Descriptions

**DES 5673 - Criticism Seminar**
This course merges theory and practice into a personalized approach to contemporary illustration. The seminar format provides a forum for students to investigate and define current trends in illustration as well as to discuss technical and theoretical aspects of historical illustration. Through this process students will refine their approach to the creation of illustrations as well as their interpretation of the work of others. Prerequisite(s): Permission of the MFA in Illustration program director is required. Enrollment is open to graduate Illustration majors only.

**DES 5723 - Portfolio Development**
Taken during the final semester of the graduate degree program, this course will assist the student in developing job prospects, producing a resume, identifying strategies for self-promotion, and presenting a portfolio in person as well as online. Prerequisite(s): Concurrent enrollment in DES 5823 and DES 5506 are required. Permission of the MFA in Illustration program director is required. Enrollment is open to graduate Illustration majors only.

**DES 5733 - Furniture Design Studio**
This course provides advanced study in the application of principles, philosophies, materials, and production of furniture design. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. This course may be repeated for credit. Prerequisite(s): Permission of instructor.

**DES 5753 - Sustainable Design Studio**
This course provides advanced study in the application of principles, philosophies, materials, and production of sustainable design. The student will present projects and solutions to the Design Graduate Committee for review, guidance, and evaluation. This course may be repeated two times for credit. Prerequisite(s): Permission of instructor.

**DES 5773 - Charles Evans Studio**
This course is a working studio design managed and staffed by interior design majors who work with campus and community clients, vendors, and a team of designers. Students make formal presentations of concept proposals and solutions to the client for approval. This course may be repeated two times for credit. Prerequisite(s): Permission of instructor.

**DES 5823 - Thesis Exhibition**
This course focuses on the exhibition design, project management, and public presentation of a final body of work showing professional competence in accordance with a practice-based Master of Fine Arts in Illustration degree. The body of work will also be documented with a written thesis statement including images of individual illustrations and the thesis exhibition. Prerequisite(s): Concurrent enrollment in DES 5723 and DES 5506 are required. Permission of the MFA in Illustration program director is required. Enrollment is open to graduate Illustration majors only.

**DES 5843 - Teaching Design**
This course provides the MFA Design student with the information and skills in studio teaching methodology, vocabulary, student evaluation, development of design projects, and course administration procedures to effectively teach a studio course in design. This course may be repeated for credit. Prerequisite(s): Permission of Graduate Advisor.

**DES 5900 - Practicum In Design**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**DES 5910 - Seminar / Special Topics**
Credit varies from 1 to 4 hours. Directed intensive study on selected problems of special topics.

**DES 5920 - Workshop in Design**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

**DES 5930 - Individual Study In Design**
Credit varies from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines of plan; conferences, oral and written reports.

**DES 5940 - Field Study**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

**DES 5950 - Internship In Design**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**DES 5960 - Institute In Design**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

**DES 5970 - Study Tour In Design**
Credit will vary. Subject matter will vary within the department's field of study.

**DES 5990 - Thesis In Design**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

**EDUCATIONAL ADMINISTRATION (EADM)**
Donna Nigh Department of Advanced Professional
& Special Services

**EADM 5353 - Technology for School Admin**
This course is designed to provide an overview of software, hardware, and networking used in the management of schools with an emphasis on scheduling, record keeping and decision making. The course will include presentation software usage and technology issues such as planning, purchasing and leadership.

**EADM 5363 - School Building And Grounds**
This course is designed to give the prospective administrators the necessary abilities to administer the school plant services. Capital improvement, contracting, site selection, and school building construction will be a vital part of the course. Prerequisite(s): EADM 5543.

**EADM 5453 - Interpersonal Relations In School Administration**
The purpose of this course will be to help prospective administrators in the development of their human relations skills which broadly includes development in interpersonal relationships and group process skills. Prerequisite(s): Admission to Education Administration and EADM 5543.

**EADM 5543 - Fundamentals Of Public School Administration**
Basic principles and practices in modern school administration.

**EADM 5553 - Legal Aspects School Administration**
This course is designed to give the student some knowledge of the general principles of school law. Consideration will be given to an understanding of the legal implications of the operation and administration of a public school system. Chool law as it relates to the state of Oklahoma, the state board of education, and the attorney general will be considered. Prerequisite(s): EADM 5543.
EADM 5583 - Public School Finance
Sources of school finance, control of expenditures, general principles of financial administration. Prerequisite(s): Admission to Education Administration and EADM 5543.

EADM 5623 - Supervision/Evaluation Of Instruction
The course will prepare school leaders to supervise and evaluate instructional programs, personnel, and curricular programs in public schools. Additionally, this course will examine the better practices in classroom supervision, the perspectives for supervision, and the foundations of supervisory leadership. Prerequisite(s): EADM 5543 AND 5553.

EADM 5673 - School Personnel Administration
A study of current personnel policies and practices that affect both certified and non-certified staff members. Prerequisite(s): EADM 5543 and admission to Education Administration.

EADM 5683 - Curriculum Leadership
This course will emphasize the supervision and evaluation of curriculum in public school systems. Additionally, it will include a study of current and instructional programs programs which require a principal's support, guidance, and leadership as school personnel work to improve and enhance the delivery of the school's curriculum. Prerequisite(s): EADM 5543, 5013, and admission to the School Administration program.

EADM 5713 - Sch District Direction Setting
School District Direction Setting is grounded Educational Leadership Constituent Council (ELCC) standard #1, and addresses the role of the school superintendent in promoting the success of all students by setting a direction for the district including the task of working with various stakeholders to develop a vision, mission and goals for the organization. Prerequisite(s): PTE 5013, 5153, EADM 5353, 5453, 5543, 5553, 5583, 5623, 5673, 5683 and 5814.

EADM 5723 - Sch District Instr Planning
School District Instructional Planning is grounded in Educational Leadership Constituent Council standard #2, and addresses the role of the school superintendent as instructional leader in promoting the success of all students including the tasks of promoting a positive school culture, providing an effective instructional program, applying best practice to student learning, and designing comprehensive professional growth plans for staff. Prerequisite(s): PTE 5013, 5153, EADM 5353, 5453, 5543, 5553, 5583, 5623, 5673, 5683 and 5814.

EADM 5733 - Sch District Organization Mgmt
School District Organizational Management is grounded in Educational Leadership Constituent Council standard #3, and addresses the role of the school superintendent in promoting the success of all students by managing the organization, operations, and resources in a way that promotes a safe, efficient, and effective learning environment. Prerequisite(s): PTE 5013, 5153, EADM 5353, 5453, 5543, 5553, 5583, 5623, 5673, 5683, 5814.

EADM 5743 - Sch District Community Collab
School District Community Collaboration is grounded in Educational Leadership Constituent Council standard #4, and addresses the role of the school superintendent in promoting the success of all students by collaborating with families and other community members, responding to diverse community interests and needs, and mobilizing community resources. Prerequisite(s): PTE 5013, 5153, EADM 5353, 5453, 5543, 5553, 5583, 5623, 5673, 5683, 5814.

EADM 5753 - Sch District Eth, Infl, & Pol
School District Ethics, Influence and Politics is grounded in Educational Leadership Constituent Council standard #5 and #6, and addresses the role of the school superintendent in promoting the success of all students by acting with integrity, fairly, and in an ethical manner and by understanding, responding to, and influencing the larger political, social, economic, legal, and cultural context. Prerequisite(s): PTE 5013, 5153, EADM 5353, 5453, 5543, 5553, 5583, 5623, 5673, 5683, 5814.

EADM 5814 - Principalship/Internship
A course designed to develop in school administrators the skills and competencies needed to provide leadership and direction necessary to carry out a school system's purposes, programs, policies, procedures, regulations, and agreements as they relate to the operation of the school. (K-12) Prerequisite(s): All courses contained in the required Master's Program.

EADM 5900 - Practicum In Education
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

EADM 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Prerequisite(s): EADM 5543, and admission to the School Administration program.

EADM 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

EADM 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

EADM 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study. Prerequisite(s): EADM 5543, and admission to the School Administration program.

EADM 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

EADM 5960 - Institute
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

EADM 5970 - Study Tour
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

EADM 5980 - Practicum In Education
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study. Prerequisite(s): All courses contained in the required Master's Program.

EADM 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

EARLY CHILDHOOD EDUCATION (ECED)
Department of Curriculum and Instruction
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ECED 5042</td>
<td>Empowerment Of Families/Communities</td>
<td>This course focuses on the critical impact of the family-school-community partnership on the educational progress of children. Theoretical perspectives on family and socio-cultural dynamics, research-based rationales for school and family engagement, and parent education will be emphasized. In addition, students will analyze effective leadership traits and assess their own unique leadership potential to empower families and communities. Prerequisite(s): Graduate standing or permission of instructor.</td>
</tr>
<tr>
<td>ECED 5063</td>
<td>Development, Learning, &amp; Family Involvement Through Age 3</td>
<td>This course addresses: developmental characteristics of the child from prenatal life through age three; developmentally appropriate environments and experiences that promote learning for this age child; and the utilization of this knowledge to educate and involve all families in their child's development and learning. Research on brain development, the impact of the early years on development and learning, guidance, and educational strategies are emphasized. A field component is included. Prerequisite(s): Graduate standing or permission of instructor.</td>
</tr>
<tr>
<td>ECED 5073</td>
<td>Language Development &amp; Emerging Literature</td>
<td>A study of the theory, materials, methods and instructional techniques applicable to language development and emergent literacy experiences during the early childhood years - birth through age eight. This course examines developmentally appropriate, integrated and interdisciplinary language arts approaches to literacy development encompassing writing, reading, oral language of young children in the home and school environment.</td>
</tr>
<tr>
<td>ECED 5082</td>
<td>Parent Education III</td>
<td>(Cognitive and moral development, age five through age eight) An in-depth study of the cognitive and moral development of the child from age five to age eight. It is designed for teachers and others in the helping professions that deal with children and their parents. The course includes examination of appropriate home learning-play activities that will promote and reinforce beginning reading, math, and the development of logical thought.</td>
</tr>
<tr>
<td>ECED 5103</td>
<td>Development, Learning, &amp; Family Involvement: The Child from 4 to 8</td>
<td>This course is an in-depth study of the development and learning of the young child from four to eight years of age. It includes analyses of the multiple influences on development and learning as well as developmentally appropriate environments and experiences that promote learning for children in this age range. The utilization of this knowledge to create healthy, respectful, supportive, and challenging learning environments and to educate and involve all families in their children's development and learning is emphasized. Prerequisite(s): Graduate standing or permission of instructor.</td>
</tr>
<tr>
<td>ECED 5133</td>
<td>Science &amp; Social Studies In Early Childhood</td>
<td>This course focuses on the application of cognitive development and the constructivist theory in the selection of appropriate methods, materials, and learning experiences for preschool and primary-age children in science and social studies.</td>
</tr>
<tr>
<td>ECED 5153</td>
<td>Development Assessment Issues ECEED</td>
<td>Graduate students will study assessment issues currently impacting young children and their families birth to age eight. There is an emphasis on creating an authentic assessment system to use with a classroom of young children. A research component is included in the course.</td>
</tr>
<tr>
<td>ECED 5223</td>
<td>Educational Practices/Constructivist Techniques</td>
<td>This course will provide an in-depth study of the constructivist psychology of learning. Emphasis will be on materials, classroom management, and curricular application commensurate with the theory of constructivism.</td>
</tr>
<tr>
<td>ECED 5232</td>
<td>Affirming Diversity: Multicultural Education</td>
<td>A study of the needs of culturally diverse children, the factors of influence that characterize their environment, and an intensive examination of realistic approaches by parents, school and community to aid them in reaching their maximal potential in America's highly urbanized, technological society. The focus of the course content will be to affirm and respect culturally and linguistically diverse children, support home language preservation, and promote anti-bias approaches through the creation of appropriate learning environments and experiences.</td>
</tr>
<tr>
<td>ECED 5313</td>
<td>Creativity in Early Childhood</td>
<td>This course provides an introduction to the diverse range and variability of creative development including creative thinking, creative processes, creative abilities, the aesthetic and performing arts, music, and movement for children and teachers of young children.</td>
</tr>
<tr>
<td>ECED 5422</td>
<td>Parent Community Relations</td>
<td>This course is designed to acquaint the student with educational resources available to educators in the community and to enhance their effectiveness in relations with both parents and the community. Prerequisite(s): Admission to Teacher Education.</td>
</tr>
<tr>
<td>ECED 5433</td>
<td>Theoretical Perspective Learning &amp; Practice</td>
<td>This course focuses on the critical analysis of current research and theory from multiple disciplines in regard to learning and development and the implications for practice in early childhood settings. Play as a learning medium is emphasized. Students will engage in self-reflection and self-assessment as a means to examine professional practice and promote growth and development.</td>
</tr>
<tr>
<td>ECED 5512</td>
<td>Public Policy: Young Children &amp; Their Families</td>
<td>Public Policy: Young Children and Their Families examines the scope of the effects of public policy within the field of early childhood education, including the complex ways policies affect children’s lives on the local, state, federal, and international levels. Special emphasis is placed on issues such as poverty, social justice and educational practices and policies influencing young children and their families. Upon completion of the course, candidates will be better equipped to engage in informed advocacy, enabling them to promote sound educational practices.</td>
</tr>
<tr>
<td>ECED 5583</td>
<td>Teachers as Researchers</td>
<td>This course examines action research, an approach to research involving self-reflective, systematic inquiry by education practitioners for the purpose of studying and improving their own practice. Identification of problems to investigate, research design, data collection, data analysis, data interpretation and technical writing are presented. The ethics of action research with human subjects is addressed. Students plan and implement a practice-based action research project and report on the outcomes of their study. Students writing a thesis will complete the thesis proposal in place of the action research. Prerequisite(s): PTE 5013. Enrollment open to graduate students with 19 or more hours.</td>
</tr>
<tr>
<td>ECED 5900</td>
<td>Practicum</td>
<td>Credit may vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>ECED 5910</td>
<td>Seminar / Special Topics</td>
<td>Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.</td>
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Graduate Course Descriptions

ECED 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

ECED 5930 - Individual Study
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports.

ECED 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

ECED 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

ECED 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

ECED 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

ECED 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study. ECONOMICS (ECON)

Department of Economics & International Business

ECON 5103 - Microeconomic Analysis
Use of economic theory and analysis in the solution of business and public policy problems using demand and cost estimation and analysis, economic forecasting, and cost/benefit analysis. Investigation of various forms of competitive and noncompetitive behavior. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5203 - Economic Growth & Development
A comprehensive study of the economic growth and development process in developing countries, including development strategies, industrialization, technical change, income distribution, migration, savings mobilization and investment and trade policies. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5303 - Quantitative Economics
The use of mathematical techniques in the development and verification of economic theory and economic models, including static (equilibrium) analysis, linear models, comparative static analysis, optimization techniques, and dynamic analysis. Prerequisite(s): Completed all prerequisites for the MBA Program with a minimum grade: C.

ECON 5323 - Policy Analysis
A comprehensive exposure to analytical tools used in evaluating investments, projects, and policies, with specific applications to federal, state, and local government policies and projects. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5333 - Urban Economics
A comprehensive study of the history, origin and evolution of cities, including an analysis of urban land use, public finance, transportation, pollution, crime, poverty, housing, and economic development issues. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5343 - Economic Analysis Of Law
An advanced investigation of the underlying economic basis of common law including the economics of property, contract, tort, criminal and family law. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5353 - Economics Of Education
An advanced study of issues surrounding the production and delivery of education, the impact of education on individual earnings, and the role of education in economic development. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5363 - Market Structure/Regulation/Antitrust
Use of theory, case studies and legal precedents to investigate alternative forms of industrial organization, with emphasis placed on underlying structure, market performance/conduct, social welfare implications, and policy alternatives such as regulation and antitrust. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5373 - Health Care Economics
A comprehensive examination of health care markets through analysis of market incentives and behavior of demanders and providers. Characteristics that prevent market forces from generating socially desirable outcomes are analyzed, including imperfect information, uncertainty, and externalities, as well as the inherent conflict arising from the desire to assure “equal access” for all individuals despite divergent incomes. Government interventions are examined and critiqued using economic theory. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5403 - International Economics
A comprehensive study of the theory of international trade, commercial policy, preferential trading arrangements, and topics on the balance of payments and the international adjustment mechanism. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5453 - Advanced Business Statistics
General linear models for estimating and testing, problem analysis, and interpretations of various statistical models. The topics treated include general linear and nonlinear regression models in matrix terms, inferences in regression analysis, multivariate analysis, analysis of covariance, discriminate analysis, analysis of categorical data, the Box-Jenkins approach to forecasting, and some topics in sampling techniques. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5483 - Microeconomic Theory
Advanced analysis of the theories of demand, supply production, cost, the firm, and market organizations. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5503 - Macroeconomics Analysis
A theoretical and applied analysis of national income, employment, interest rates, economic growth, exchange rates, fiscal and monetary policy, supply shock, and related topics, with emphasis on the impact of macroeconomic forces on the business community. Prerequisite(s): Completed all prerequisites for the MBA Program.

ECON 5523 - Policy Issues In Labor Economics
Applies labor economic theory and economic tools to the analysis of contemporary public policy issues in labor economics. Prerequisite(s): Completed all prerequisites for the MBA Program.
<table>
<thead>
<tr>
<th>Course Code</th>
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<tbody>
<tr>
<td>ECON 5603</td>
<td>Comparative Economic Systems</td>
<td>A comprehensive study and comparison of major economic systems, including capitalism, socialism and mixed economic systems; an analysis of their relative efficiency; and a survey of the main problems faced by economies in transition. Prerequisite(s): Completed all prerequisites for the MBA Program.</td>
</tr>
<tr>
<td>ECON 5893</td>
<td>Applied Research &amp; Analysis Tools</td>
<td>Provides the applied knowledge, advanced technical and library skills, and hands-on experience necessary for performing economic research and analysis. Prerequisite(s): Completed all prerequisites for the MBA Program.</td>
</tr>
<tr>
<td>ECON 5900</td>
<td>Practicum In Economics</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
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<td>ECON 5910</td>
<td>Seminar / Special Topics</td>
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<td>ECON 5920</td>
<td>Workshop in Economics</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of &quot;P&quot; or &quot;F&quot; is given.</td>
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<td>ECON 5930</td>
<td>Individual Study In Economics</td>
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<tr>
<td>ECON 5950</td>
<td>Internship In Economics</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.</td>
</tr>
<tr>
<td>ECON 5960</td>
<td>Institute In Economics</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>ECON 5970</td>
<td>Study Tour</td>
<td>Credit will vary. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>ECON 5990</td>
<td>Thesis</td>
<td>Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.</td>
</tr>
</tbody>
</table>

**ELEMENTARY EDUCATION (ELED)**

**Department of Curriculum and Instruction**

**ELED 5063 - Tchg Rdg in the Primary Grades**
This course includes a study of theory, research, and related instructional strategies and curriculum materials applicable to the teaching of reading in the primary grade. Topics will include research-based approaches to reading instruction incorporating principles for effective teaching; essential skills which include phonological system, syntactical system, and pragmatic system. The knowledge base will be enhanced through modeling and a limited field experience. Prerequisite(s): Enrollment open to Early Childhood Education, Elementary Education, Reading and Special Education majors only.

**ELED 5173 - Tchg Reading Inter/Middle Schl**
This course expands upon the basic reading skills utilizing a wide variety of strategies and materials appropriate for use in grades 4-8. The course emphasizes comprehension, vocabulary development, content area reading, expository tests, study skills, thinking skills, contextual analysis skills and technology in reading as well as content area readings. The knowledge base will be enhanced through modeling and a limited field experience. Prerequisite(s): ELED 5063 and admission to Teacher Education. Enrollment open to Elementary Education, Reading and Special Education majors only.

**ELED 5223 - Literature-Based Language Arts Instruction**
Through the use of quality children’s literature, focus of this course seeks to enable teachers and other school personnel to enhance elementary and middle school students’ performance in language arts, particularly listening, speaking, and writing. Prerequisite(s): ELED 4213 - Teaching Language Arts in Elementary/Middle School Grades.

**ELED 5253 - STEM Teaching & Learning Grades 1-8**
A study of instructional methods for teaching life, earth-space and physical science and engineering concepts. Emphasis is placed on integration of science, technology, engineering, and mathematics while using state standards. Prerequisite(s): Valid elementary certificate or admitted to candidacy. Enrollment open to Elementary Education, Early Childhood Education and Secondary Education majors only.

**ELED 5263 - Assess/Interven Reading K-3**
This course examines current issues specific to grades K-3 reading practices, assessment, and intervention strategies. Upon completion of this course, the students will be able to utilize appropriate reading assessments and design effective intervention strategies, lessons, and activities. This class requires clinical experience with grades K-3 students. Prerequisite(s): ELED 5063 and admission to Teacher Education. Enrollment open to Early Childhood, Elementary Education and Special Education majors only.

**ELED 5273 - Assess/Interven Reading 4-8**
This course examines current issues specific to grades 4-8 reading practices, assessment, and intervention strategies. Upon completion of this course, the students will be able to utilize appropriate reading assessments and design effective intervention strategies, lessons, and activities. This class requires clinical experience with grades 4-8 students. Prerequisite(s): ELED 5063, ELED 5173 and admission to Teacher Education. Enrollment open to Early Childhood, Elementary Education and Special Education majors only.

**ELED 5283 - Lang Arts & Multicultural Lit**
This course provides opportunities for teacher candidates to explore the many facets of language arts through a multicultural lens. It will cover pedagogy, theory, and research-based best practices in teaching English language arts for elementary students and language learners. Prerequisite(s): Admission to Teacher Education. Enrollment open to Early Childhood Education, Elementary Education and Special Education majors only.

**ELED 5323 - Teaching Mathematics In Preschool/Primary**
The selection and organization of subject matter is designed to facilitate the teacher’s ability to meet the needs of preschool and primary children. Child development and mathematics curriculum will be studied including mathematics readiness, diagnosis, and placement. Activities for developing concepts in topics such as pre-number, number, geometry, measurement, and the collection and organization of data will be explored. Prerequisite(s): Admission to Teacher Education.
### Graduate Course Descriptions

**ELED 5333 - Teaching Mathematics In Intermediate Grades**
This course is designed to facilitate the prospective teacher’s ability to meet the needs of intermediate grade students in the study of mathematics. It includes the study of current trends in mathematics curriculum; instructional techniques and materials; assessment of student performance; and curriculum programs. Specific topics covered are patterns and relationships; organizing, analyzing and synthesizing data; communicating mathematically; strategies for problem solving; mathematical concepts and skills of whole numbers, rational numbers, geometry, and measurement; and the use of technology. Prerequisite(s): ELED 5323 and Admission to Teacher Education.

**ELED 5343 - Science in the Elem School**
This course focuses on methods of presenting science in the elementary grades with particular emphasis on investigative/inquiry instruction. The investigations, concepts studied and methods emphasized in this course are consistent with the National Science Education Standards and are designed to enhance the candidate’s preparation as reflective, responsive and resourceful professionals. Prerequisite(s): Admission to Teacher Education. Enrollment open to Elementary Education, Elementary Education and Special Education majors only.

**ELED 5463 - Social Studies In The Elementary School**
This course will address the function of social studies in elementary education, and facilitate the development of procedures and techniques for teaching social studies in the elementary grades. Prerequisite(s): Admission to Teacher Education.

**ELED 5483 - Children's Literature**
Prospective teachers will be exposed to a wide variety of literature appropriate for the preschool through the adolescent years. Literacy elements and skill will be examined as well as the shift from a basal series/skills approach of teaching reading and literature to a more language/literature based method framework. Application and modeling of instructional strategies will represent an integral part of the course. Prerequisite(s): Admission to Teacher Education.

**ELED 5513 - Algebra & Mathematical Tasks PK-5**
This course focuses on algebraic literacy of elementary teachers and the integration of algebraic reasoning throughout the elementary student experience as well as the creation and implementation of elementary level mathematical tasks.

**ELED 5523 - Geometry and Spatial & Learning Trajectories PK-5**
This course will focus on the content and complexities of teaching and learning geometry and spatial visualization in grades Pre-K-5. The course will also examine the learning trajectories that support developing mathematical concepts and skills. Course content will include geometric properties and relationships, visualization and spatial reasoning, transformational and coordinate geometries, and geometric constructions and modeling.

**ELED 5533 - Number Concepts & Assessment PK-5**
This course focuses on the analysis and construction of effective mathematical tasks in teaching number systems and operations at the PK-5 level. Attention is also given to the expansion of content knowledge and issues related to assessment.

**ELED 5543 - Teaching Measurement & Data Analysis PK-5**
This course focuses on statistical literacy of elementary teachers and the teaching of data analysis and measurement of K-5 students. Emphasis is placed on the use of technology to enhance student learning.

**ELED 5553 - Rational Number, Proportional Reasoning & Classroom Interaction**
Rational Number Concepts, Proportional Reasoning, and Classroom Interactions (PK-5) focuses on teaching rational number concepts and developing proportional reasoning skills for PK-5 classroom. Attention is also given to learning methods which facilitate appropriate classroom interactions.

**ELED 5556 - Mathematics Leadership & Coaching PK-5**
This course is designed to facilitate the prospective teacher’s ability to meet the needs of intermediate grade students in the study of mathematics. It includes the study of current trends in mathematics curriculum; instructional techniques and materials; assessment of student performance; and curriculum programs. Specific topics covered are patterns and relationships; organizing, analyzing and synthesizing data; communicating mathematically; strategies for problem solving; mathematical concepts and skills of whole numbers, rational numbers, geometry, and measurement; and the use of technology. Prerequisite(s): ELED 5323 and Admission to Teacher Education.
ELED 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

ELED 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

ELED 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

ELED 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

ENGLISH (ENG)
Department of English

ENG 5013 - Bibliography & Methods Of Research
This course exposes students to both the theory and the practice of advanced scholarly research in literary studies.

ENG 5023 - Technical Writing
Technical Writing provides a study of basic composition principles and will equip students in various disciplines to write clear technical expository prose designed for specific audiences. This course emphasizes reports, memorandums, proposals, brochures, and other technical communication formats. An important component of this course is effective oral communication as appropriate for the development of technical prose within a group setting.

ENG 5043 - Colonial American Literature
The course examines the colonial, regional, and revolutionary literature of America to identify the history, ideologies, myths, poetry, essays, and drama which shaped and continue to influence American culture.

ENG 5053 - Vietnam War Film & Literature
This course examines the cinematic and literary perspectives of the Vietnam War from gender, ethnic and nationalistic perspectives. Students will discuss the historical, social and political aspects of the war in comparison to films and literary works from other American wars. Prerequisite(s): Graduate standing.

ENG 5063 - Advanced Technical Writing
Advanced Technical Writing affords students a real-world opportunity to work with clients to develop documents that will be beneficial to the clients. These documents may include newsletters, letters to donors, letters to populations served by the client, grants, proposals for funding, copy for a website, and a variety of other professional documents.

ENG 5073 - 19th Century British Women Writers
This course examines the works of major British women writers of the nineteenth century, focusing on the female literary tradition inherent in their novels and poetry.

ENG 5083 - Early American Gothic Fiction
This course examines the Gothic tradition in works of American fiction written during the 18th and 19th centuries, focusing on the way in which this tradition responds to American ideology and events in American history.

ENG 5093 - 20th Century American Womens Autobiography
This course examines autobiographies written by women during the twentieth century. The course will concentrate on providing a theoretical background and strategies for analyzing women’s life writing.

ENG 5103 - Modern Drama
This one-semester course in world drama, covering about twenty-four plays, starts with Ibsen, the late nineteenth-century father of modern drama, and proceeds to several contemporary plays, focusing on major world dramatists and dramatic movements.

ENG 5113 - Studies In Literary Criticism
This course features advanced studies in literary theory with emphasis on twentieth century criticism and practice in the various modes of literary analysis.

ENG 5123 - Shakespeare: The Major Plays
Shakespeare: The Major Plays offers an intensive study of a selection of Shakespeare’s major comedies, tragedies, histories, and romances and examines the historical contexts, critical reception and interpretation, and performance histories of plays in each of these genres.

ENG 5133 - 19th Century British Novel
This course will provide an intensive examination of novels by British fiction writers during the 19th Century. With an emphasis on context and an attempt to understand the intellectual, political, and artistic preoccupations of Britain’s 19th Century, the course will direct attention to themes and social commentary in an artistic literary approach to 19th Century British fiction.

ENG 5143 - Blogs: New Independent Media
Blogs: New Independent Media analyzes the growing impact of Internet blogs, or weblogs, on American culture. The course also gives students the practical experience of creating and maintaining a blog.

ENG 5153 - Victorian Literature
This course on the major British literary figures during of the Victorian period (1832-1901) is designed to introduce students to the use of Victorian periodicals and to the terminology and aims of modern schools of criticism.

ENG 5163 - Postcolonial Literature
Postcolonial Literature used contemporary historical and literary-critical scholarship within the field of Postcolonial Studies to explore the diverse ways in which literary texts from the nineteenth, twentieth, and twenty-first centuries have subverted traditional Western ideas of empire and of the colonized.

ENG 5173 - Romantic Literature
A study of the major writers of the British Romantic period from the 1780’s to the 1820’s, this course is designed to introduce students to the major literary criticism on the Romantic period as to increase their understanding of the British Romantic writers’ ideals and artistic themes.

ENG 5183 - Restoration/18th Century British Literature
This course offers a comprehensive study of the major authors, genres, and thematic concerns of Restoration and early 18th-century British literature.

ENG 5193 - British Novel 1900-1940
This course on the work of the major British novelists from approximately 1900 to 1940 focuses on the Modernist movement in British literature.

ENG 5203 - The Age Of Johnson
Taking the writing of Samuel Johnson as a point of departure, this course examines the major authors, genres, and thematic concerns of British literature during the period 1737-84.

ENG 5213 - 18th Century British Novel
This course on the work of the major British novelists of the eighteenth century focuses on the rise of the British novel and deals with the major antecedent of the novel as a genre.
ENG 5223 - Southern Women Writers
This course offers a survey of twentieth-century American women writers including Eudora Welty, Flannery O'Connor, Kate Chopin, Carson McCullers, Alice Walker, Zora Neale Hurston and such contemporary writers as Shirley Ann Grace and Elizabeth Spencer.

ENG 5233 - American Novel I
The course will cover the development of the American novel from its beginnings in the late 18th Century through the romantic, realist, and naturalist periods.

ENG 5243 - Chaucer
This one-semester course on the Canterbury Tales and Troilus and Criseyde presents Chaucer’s text in Middle English, but students are allowed to use a translation as an aid to understanding his language.

ENG 5253 - American Novel II
This one-semester course on the evolution of the American novel from 1900 to World War II examines a range of literary styles and analyzes the characteristics of realism, naturalism, and modernism in a representative sampling of important texts.

ENG 5273 - American Fiction Since WW II
This one-semester course in the development of postmodern American fiction begins with two prewar novels and contrasts later, radical texts with more conservative ones, charting the major characteristics of postwar fiction and setting it within the historical and aesthetic context of American literature.

ENG 5283 - English Grammar And Usage
This one semester course provides a detailed scholarly analysis of contemporary English. Although the approach is descriptive rather than prescriptive, a distinction is made between formal and informal usage. Textbook analysis are supplemented by workbook exercises and readings in scholarly journals.

ENG 5293 - American Films in Context
American Films in Context offers an advanced survey of American film history, examining the social, cultural, and institutional contexts within which American films have been produced and consumed. Treating films as both artistic texts and historical artifacts, this course examines representations of American life in popular films and explores the influence Hollywood has had on social and cultural values. We shall examine films within the contexts of the studio system, the star system, Hollywood genres, censorship, and film exhibition, and we shall explore the aesthetic, economic, and ideological factors that have shaped the history of American cinema in important ways.

ENG 5303 - Technical Editing
Technical Editing offers students the opportunity to learn grammar and editing skills by reading theory, testing knowledge of grammar, and completing an editing project. This course teaches students practical editing skills and helps them to become stronger editors. Prerequisite(s): ENG 5023.

ENG 5313 - Cinema of the Seventies
This course examines the development of American cinema during the 1970s, including unique themes of the environment and major directors of the period.

ENG 5323 - History English Language
The course examines the origins and historical development of the English language, including vocabulary, phonology, syntax, orthography, and morphology throughout the three main periods of development - Old English, Middle English, and Modern English. Students in this class will consider the time periods, explore the major influences on and characteristics of the language in each period, and study how the language influenced, was influenced by, and is reflected in the literature of each period.

ENG 5333 - Teaching Shakespeare
Teaching Shakespeare focuses on multiple methods for teaching Shakespeare in grades 6-12. Pedagogical theory and practice, along with literary criticism, will be used to study Shakespearean sonnets and plays most often taught in public schools. Students are required to plan standards-based instruction and to construct assessments useful for their future teaching.

ENG 5343 - Linguistics
The course is a comprehensive study of the English language from sounds (phonetics and phonology) to words (morphology) to structure (syntax) to meaning (semantics). The course also examines some social aspects of language (especially dialectology) as well as some applications of linguistic theory to other fields.

ENG 5353 - African American Women Writers
African American Women Writers is a survey of African American women writers. In addition to slave narratives, writers included are Zora Neale Hurston, Terry McMillan, Toni Morrison, and Alice Walker.

ENG 5363 - Theories of Film History
This course examines various philosophies of history and current theoretical approaches to historical and cultural study as well as exploring questions of aesthetics, economics, social practice, and cultural history. In addition, the work of several generations of film historians is surveyed.

ENG 5373 - Methods of Film Research
This course will introduce students to the fundamentals of advanced scholarly research in film studies, providing the professional skills essential for researching the critical and cultural history of the cinema.

ENG 5383 - Modern American Poetry
This one-semester course surveys the major figures in Modernist American Poetry, including Frost, Pound, Stevens, and Williams. The seminar examines the prose criticism of these writers as well as their poetry, and assesses their contributions to the development of twentieth-century literary theory.

ENG 5393 - Literary Impressionism
Literary Impressionism provides an intensive study of the major works of Henry James, Joseph Conrad and Ford Madox Ford as well as of the literary, philosophical, and artistic contexts, including the impressionist movement in the visual arts, that influenced these writers and their works.

ENG 5403 - Greek Drama in Translation
Greek Drama in Translation provides an intensive study of the major tragedies by Aeschylus, Sophocles, and Euripides as well as some of the works by Aristophanes and Menander. This course will give the student of literature as well as the writer in training a better grasp of the literary and cultural significance of these masterpieces.

ENG 5413 - TESL Grammar
The course will allow graduate students to study the practical application of grammatical theories in English as a Second Language (ESL) instruction through both primary and secondary research.
ENG 5423 - A Literary Study Of The Bible
This course offers a study of the Bible as literature and provides an overview of current historical, anthropological, archetypal, and linguistic approaches to the study of the Bible. Students in this course study the forms of the biblical texts, as well as the development of these forms in a historical context. Contemporary literary criticism of the Bible is an integral part of the study of the biblical texts.

ENG 5433 - Classical Hollywood Cinema
This course offers students an advanced understanding of the aesthetic and industrial practices that have defined the classical Hollywood cinema.

ENG 5443 - Literature of the American West
Literature of the American West investigates the American West as myth, setting, and symbol in literary texts in a variety of genres written between the beginning of the nineteenth century and the present day.

ENG 5453 - American Indian Authors
American Indian Authors examines a particular American Indian author or selected groups or movements of American Indian authors.

ENG 5463 - American Indian Literature
American Indian Literature is a critical survey of traditional and contemporary American Indian literature. Students will analyze diverse types of American Indian literary contributions, including oratory, poetry, drama, prose fiction, criticism, and autobiography.

ENG 5473 - Advanced Composition
This course presents the principles of effective writing and affords students the opportunity to apply these principles through extensive writing practice.

ENG 5483 - Milton: Poetry And Prose
This course examines the major poems and selected minor poetry and prose of John Milton, the great Seventeenth Century poet, puritan and revolutionary. Through close critical readings of Milton’s work, the class will examine such Miltonic themes as loss, guilt, patience, choice, trial, free will, the relationship between men and women and their relationship with God. The class will study the literary genres which Milton adopts and adapts (epic, tragedy, pastoral, masque, etc.), and the poetics, aesthetics, and ethics which inform his work. The course will analyze Milton in his various roles of farsighted politician, profound theologian, and visionary poet.

ENG 5493 - Document Design
Document Design offers students the opportunity to learn about design standards, page layout, instructional design, desktop publishing, typography, reading theory, and current research in document design. Prerequisite(s): ENG 5023.

ENG 5503 - 16th Century British Literature
The course provides a survey of sixteenth century British prose, poetry, and drama. It will provide an extensive examination of writers and literary forms arising during Britain’s 16th Century, each of which demonstrates continuing literary and historical importance to literature in English.

ENG 5513 - Literary Works Of C.S. Lewis
This course will provide comprehensive coverage of the literary works of C. S. Lewis and a brief look at related criticism. The course will include literary interpretation, genres, motifs, literary devices, and themes of the works.

ENG 5523 - Comic Books and Graphic Novels
Comic Strips, Comic Books & Graphic Novels offers an historical survey of the development of graphic narrative as a vital literary and artistic form that has shaped American culture while also reflecting its anxieties and concerns. The course examines the emergence and development of graphic narrative within three specific production contexts: the newspaper comic strip, the comic book magazine and the graphic novel, each of which has produced major figures and canonical works while contributing to the development of graphic narrative techniques and forms. The course examines each of these graphic narrative forms within the specific context of their production processes, conceptions of authorship, system of genres, and styles of representation. Prerequisite(s): ENG 1113 and ENG 1213.

ENG 5553 - Teaching Methods For Teaching Assistants
This course provides teaching assistants with the training necessary to teach first year composition. Students will focus on the pedagogical concerns involved in teaching the writing process and will come to understand the effects that professional attitude, grading procedures, conferring with students, and the use of technology have on the objectives of the class as a whole. Prerequisite(s): Students must be accepted into the Teaching Assistant program. Written permission required.

ENG 5563 - Modern British Poetry
This one-semester course examining the works of the major British poets from before World War I to the contemporary era.

ENG 5573 - 17th Century British Literature
This course surveys British literature of the seventeenth century, focusing on, among others, the prose writers Browne, Burton, Donne, and Walton, novelists Defoe and Behn, and the poets Donne, Herbert, Marvell, Vaughan, and Traherne. Prerequisite(s): 6 hours grammar and composition.

ENG 5583 - 18th Century British Literature
This course surveys British literature of the eighteenth century, focusing on, among others, the prose writers Defoe and Behn, and the poets Donne, Herbert, Marvell, Vaughan, and Traherne. Prerequisite(s): 6 hours grammar and composition.

ENG 5593 - Fitzgerald & Hemingway
Fitzgerald and Hemingway provides an intensive study of the works of Ernest Hemingway and F. Scott Fitzgerald in the context of Jazz Age culture and the literary work of the Expatriates.

ENG 5601 - Composition and Rhetoric Portfolio
Composition and Rhetoric Portfolio, taken during the last semester of the graduate major in Composition and Rhetoric, will direct students in the compilation and final revision of artifacts for the portfolio and will help to prepare students for the oral portfolio examination. Prerequisite(s): Enrollment open to Composition and Rhetoric majors only.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENG 5611</td>
<td>Research and Writing</td>
<td>Research and Writing affords students the opportunity to complete a thesis proposal, grant application, or research article using research and data that the students already possess. This course focuses on creating the technical document on which the student chooses to work.</td>
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<tr>
<td>ENG 5623</td>
<td>Shakespeare Tragedies</td>
<td>This one-semester course offers an in-depth study of a selection of Shakespeare's tragedies.</td>
</tr>
<tr>
<td>ENG 5633</td>
<td>Old English Literature</td>
<td>This course offers an in-depth survey of the major works of Old English literature, including heroic and religious poetry, homiletic prose, riddles, elegies, and saints' lives. This course also provides an overview of Anglo-Saxon history and culture and an introduction to Old English grammar, syntax, and vocabulary.</td>
</tr>
<tr>
<td>ENG 5643</td>
<td>Theories and Methods of Cultural Study</td>
<td>Theories and Methods of Cultural Study provides students with an understanding of the conceptual frameworks and critical vocabularies used in the study of contemporary culture as well as of the methods of textual and discursive analysis particular to cultural studies scholarship. This course examines critical and theoretical texts together with a wide range of cultural products and explores the social contexts of the major areas of discussion in contemporary cultural study, including the concepts of culture, ideology, ethnicity and race, sexuality and gender, and class and social identity.</td>
</tr>
<tr>
<td>ENG 5653</td>
<td>History Rhetoric Since 1700</td>
<td>This course surveys the history of rhetoric in western Europe from 1700 to the Present. The first half of the course covers the rhetorics of The Enlightenment, 1700 to 1900, and the second half covers the rhetorics of the twentieth century.</td>
</tr>
<tr>
<td>ENG 5663</td>
<td>The Beat Movement</td>
<td>This course examines the works of many of the most significant writers of the Beat Movement in American literature of the 1950s and 1960s, including Allen Ginsberg, Jack Kerouac, and William Burroughs.</td>
</tr>
<tr>
<td>ENG 5673</td>
<td>Young Adult Literature</td>
<td>Young Adult Literature examines the history and evolution of young adult literature and the ways in which these texts affect an adolescent audience. Students will read theory and scholarship to broaden their understanding of this dynamic field.</td>
</tr>
<tr>
<td>ENG 5683</td>
<td>Women in Literature</td>
<td>Women in Literature examines literature written by women and highlights the importance of gender in evaluating English, American, and world literature and literary criticism by women writers.</td>
</tr>
<tr>
<td>ENG 5693</td>
<td>Films of Akira Kurosawa</td>
<td>This course explores the works of Akira Kurosawa by examining his life, his films, and the impact of his greatest works on the world cinema. Prerequisite(s): Graduate standing.</td>
</tr>
<tr>
<td>ENG 5703</td>
<td>Kung Fu Films &amp; Literature</td>
<td>This course examines Asian martial arts films, focusing primarily on Hong Kong films, by exploring such film icons as Bruce Lee and Jackie Chan; by analyzing the works of directors such as Ang Lee and Chang Cheh; and by evaluating the Chinese philosophies of Taoism, Buddhism and Confucianism in such films.</td>
</tr>
<tr>
<td>ENG 5713</td>
<td>19th Century American Women Writers</td>
<td>This course provides an introduction to the major American female writers of the nineteenth century. This course focuses on novels, but includes short stories and poetry.</td>
</tr>
<tr>
<td>ENG 5723</td>
<td>Composition Pedagogies</td>
<td>This class examines practical strategies for helping students improve their composition skills by exploring established and emerging pedagogies.</td>
</tr>
<tr>
<td>ENG 5733</td>
<td>TESL Pedagogy</td>
<td>Future teachers of English as a second language (TESL) examine how creativity and research can help develop effective games and simulations for pedagogical purposes. First, students investigate methodologies for creating language games and simulations for the classroom. Second, they develop that knowledge into computer assisted language exercises. Finally, students will present their research and scholarly projects in a class symposium. Prerequisite(s): Graduate standing.</td>
</tr>
<tr>
<td>ENG 5743</td>
<td>Theoretical Approaches to Literature</td>
<td>Theoretical Approaches to Literature provides students with the theoretical knowledge and practical experience necessary to produce theoretically informed professional work in the field of literary studies. Students in this course will examine major interpretive questions within contemporary literary studies through a variety of theoretical lenses and will learn to apply theoretical methodologies within their own literary critical work.</td>
</tr>
<tr>
<td>ENG 5753</td>
<td>Publishing &amp; Editing</td>
<td>Publishing &amp; Editing affords students a real-world opportunity to learn strategies and techniques for soliciting manuscripts, judging submissions, selecting, editing, negotiating editor-author relations, designing, laying out, proofing, advertising, promoting, and distributing academic and/or literary journals. This course is cross-listed with CSDY 5753. The course, &quot;Publishing and Editing&quot; may be taken a maximum of two times for credit, whether taken under ENG, CSDY or a combination.</td>
</tr>
<tr>
<td>ENG 5763</td>
<td>American Literature 1800-1865</td>
<td>This course is a comprehensive study of the “flowering of American literature” from the beginning of the 19th century to the close of the Civil War. Special consideration is given to many important forms other than novel, such as poetry, short fiction, and nonfiction prose.</td>
</tr>
<tr>
<td>ENG 5773</td>
<td>American Literature 1865-1900</td>
<td>This course is a comprehensive study of American literature from the close of the Civil War to the beginning of the 20th century. Special consideration is given to many important forms other than the novel, particularly the short fiction of the writers of regionalism, realism and naturalism.</td>
</tr>
<tr>
<td>ENG 5783</td>
<td>Composition Theory &amp; Research</td>
<td>This course provides an in-depth study of the scope of compositional theory, the methods of composition research, and the work of individual theorists.</td>
</tr>
<tr>
<td>ENG 5803</td>
<td>TESL Portfolio</td>
<td>TESL Portfolio provides TESL graduate students with a capstone experience in which they prepare a portfolio of artifacts that demonstrate their knowledge and skills in the field. Students in this class will systematically revise a paper written for ENG 5900 (Practicum in TESL), deliver conference-style presentations, write abstracts for conferences, create resumes, and engage in other professional development activities such as writing cover letters, participating in simulated job interviews, and leading class discussions.</td>
</tr>
<tr>
<td>ENG 5813</td>
<td>American Indian Youth Literature</td>
<td>American Indian Youth Literature studies American Indian children and adolescent literature from a variety of perspectives including traditional educational texts, contemporary texts, and challenged/controversial texts.</td>
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</tbody>
</table>
ENG 5823 - Ethnic American Literature
This one-semester course focuses on the literature of African-Americans, Asian-Americans, Hispanic Americans, American Indians, and European Americans.

ENG 5833 - Cyberpunk Film and Literature
In this course, students will explore the visual and literary sub-genre of cyberpunk science fiction. Students will define the genre according to the themes of the invasion of the mind, the ontology of cyborgs, and the paranoia of oppressive politics. Students will also assess the value this genre has in postmodern world fiction. Prerequisite(s): Graduate standing.

ENG 5843 - English/Language Arts Methods
English/Language Arts Methods focuses on creating lessons that use reading strategies and best practices for literature instruction. Students preparing to teach in the secondary classroom will create an integrated unit plan, align instruction to current standards, and practice teaching through multiple demonstrations. Prerequisite(s): Bachelor in Education or admitted to a certification program with graduate standing.

ENG 5853 - Shakespeare Comedies
This one-semester course offers an in-depth study of six of Shakespeare's comedies. In addition to studying the secondary criticism, students will correlate films and stage productions with their reading of the primary texts.

ENG 5863 - Shakespeare’s History Plays
This course provides extensive research into the plays and background of the early Kings of England through literary analysis.

ENG 5873 - American Indian Film
American Indian Film offers a critical survey of early and contemporary American Indian films. Students will analyze diverse types of American Indian cinematic contributions, including silent films, documentaries, features, shorts, and animated films.

ENG 5883 - Asian American Literature
In this course, students will analyze and evaluate the contributions that Asian Americans made to American literature. Students will discuss the perceptions Euro-Americans have towards individual Asian cultures due to historical events and how that affected the way Asian Americans were treated and how they recorded this treatment in the literature. Prerequisite(s): Graduate standing.

ENG 5891 - Comprehensive Examination
This course, taken during the student’s last semester in the program, will prepare the student for and will assist the student in successfully completing the Comprehensive Examination.

ENG 5900 - Practicum In English
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

ENG 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.

ENG 5920 - Workshop in English
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

ENG 5930 - Individual Study In English
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans; conferences, oral and written reports.

ENG 5940 - Field Study In English
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

ENG 5950 - Internship In English
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

ENG 5960 - Institute In English
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

ENG 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

ENG 5990 - Thesis In English
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

ENGINEERING (ENGR)
Department of Engineering and Physics

ENGR 5023 - Heat Transfer
This course introduces basic thermal-energy transport processes, conduction, convection, radiation, and the mathematical analysis of systems involving these processes in both steady and time-dependent cases. Prerequisite(s): MATH 3103, ENGR 3443, 3703 or concurrent enrollment in ENGR 3703.

ENGR 5083 - Electromagnetic Fields II
This course presents the application of Maxwell’s equations to time-varying electromagnetic fields, electromagnetic waves, radiation, diffraction, the electromagnetic theory of light, and antenna design. Prerequisite(s): ENGR 3183.

ENGR 5103 - Finite Element Analysis
This course will cover the advanced topics of finite element analysis (FEA) including FEA formula for truss, beam, 2D and 3D elasticity problems, general theory and applications of FEA. This course includes approximate solution methods, the RITZ method, interpolation, isoparametric finite elements, and displacement-based bending elements for solving complex engineering problems. The course incorporates the development of stand-alone finite element computer codes and the application of commercial finite element software packages to analyze advanced solid mechanics problems. Prerequisite(s): ENGR 2143, 3703 and PHY 3883.

ENGR 5143 - Vibration
This course analyzes free and forced vibrations of single and two degree of freedom mechanical systems. This course also covers vibration of continuous systems. Prerequisite(s): MATH 3103 and ENGR 2043 with a minimum grade of “C”, PHY 3883 or concurrent enrollment.

ENGR 5163 - Engineering Optics
The principles of geometrical and physical optics are applied to the analysis and design of optical systems including uniaxial and biaxial crystals, Gaussian-beam propagation, optical resonators, lasers, q-switching and mode locking, line broadening and electro-optic modulations. Prerequisite(s): Graduate standing and permission of instructor.
ENGR 5203 - Refrig & Air Conditioning
This course will enable students to apply advanced thermodynamics and thermo-fluid principles to design and analyze refrigeration and air conditioning processes in engineering systems. Topics in refrigeration include analysis of vapor compression, vapor absorption and air cycle refrigeration systems, selection of refrigerants, refrigeration equipment, low temperature applications and control & safety devices in refrigeration systems. Topics in air conditioning include cooling load calculations, psychrometric analysis, air distribution and duct system design, air conditioning equipment and control systems. Prerequisite(s): ENGR 3203, ENGR 3443, and (ENGR 4123 or concurrent enrollment in ENGR 4123).

ENGR 5303 - Control Systems
This course focuses on linear, non-linear, and discrete automatic control systems; feedback control; system robustness and stability; and classical and modern control theories. Prerequisite(s): ENGR 3323.

ENGR 5311 - Digital Signal Processing Lab
This laboratory course comprises the laboratory component of ENGR 5333. Laboratory experiments emphasize digital signal processing theory, hardware, and related applications on digital signal processors. Prerequisite(s): ENGR 3323 and ENGR 3331. Concurrent enrollment in ENGR 5333 is required.

ENGR 5323 - Digital & Analog Communication
This course addresses selected theoretical and practical aspects of digital and analog communications systems such as amplitude modulation, frequency modulation, phase modulation, pulse code modulation, PSK, ASK, probability of error, and multiplexing. It also covers the sampling theory and analog to digital conversion. This course develops the engineering mathematics and techniques to describe the physical transmission of information over band-limited channels, taking into account channel characteristics and the presence of noise and distortion. Prerequisite(s): ENGR 3323.

ENGR 5333 - Digital Signal Processing
The course discusses the representation, analysis, and design of digital signals and systems. Among the topics that will be covered are discrete signals and systems, signal sampling and reconstruction, z-transform, discrete Fourier transform, fast Fourier algorithms, also IIR and FIR filter structure and design. Prerequisite(s): ENGR3323. Concurrent enrollment in ENGR 5311 is required.

ENGR 5443 - Fluid Dynamics
The fundamental equations and solution methods of fluid dynamics are presented with particular attention to solving the Navier-Stokes equation. Topics covered will include mass conservation, momentum and energy equations for continua, potential flow, incompressible and compressible flows, viscous flow, similarity and dimensional analysis, boundary-layer theory, vorticity, and turbulent flow. Prerequisite(s): ENGR 3203, 3443, MATH 3103.

ENGR 5533 - Thermal Systems Design
This course develops the concepts and methodology of advanced system design, energy analysis, and optimization applied to thermal-fluid systems. Topics include simulation and analysis to determine performance of existing systems; and design of thermal-fluid systems, including component selection, to meet specified requirements. A discussion of engineering economics relevant to design topics covered is included in this course. Prerequisite(s): ENGR 4123 or 5023.

ENGR 5553 - Applied Problems
The methods used to assess and solve applied problems commonly encountered in modern industry and technology are presented. Prerequisite(s): Graduate standing and permission of instructor.

ENGR 5613 - Photonics
The ray, wave, and photon-formulations of optics are developed and applied to engineering waveguides, fiber optics, and ultra-fast laser systems. Applications to nonlinear optics, laser holography, nanostructures, quantum statistics of photons, three- and four-wave mixing, near-field microscopy, advanced spectroscopy methods, and light-scattering are covered. Prerequisite(s): ENGR 5163; or graduate standing and permission of instructor.

ENGR 5633 - Solid State Devices
The physical principles of operation of the p-n junction, metal semiconductor contact, bipolar junction transistor, MOS capacitor, MOS and junction field-effect transistors, and related electro-optical devices are presented. First-order device models reflecting the underlying physical principles are developed. Prerequisite(s): PHY 3103 and ENGR 3183 or permission of instructor.

ENGR 5803L - Mechatronics Laboratory
This course comprises the laboratory component of ENGR 5803. Experiments and computer simulations are designed to reinforce the concepts covered in the lecture course and equip students with the basic skills associated with the design, simulation and analysis of electromechanical systems and mechatronics devices. Prerequisite(s): ENGR 3323 and 3331 with a minimum grade of “C”. Concurrent enrollment in ENGR 5803L is required.

ENGR 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

ENGR 5990 - Thesis in Engineering
Credit will vary from 1 to 3 hours. Subject matter will vary within the department’s field of study.

ENGR 5990L - Mechatronics Laboratory
This laboratory course comprises the laboratory component of ENGR 5803. Experiments and computer simulations are designed to reinforce the concepts covered in the lecture course and equip students with the basic skills associated with the design, simulation and analysis of electromechanical systems and mechatronics devices. Prerequisite(s): ENGR 3323 and 2043 with a minimum grade of “C”. Concurrent enrollment in ENGR 5803 is required.

ENGR 5991 - Seminar/Special Topics
Credit will vary from 1 to 3 hours. Subject matter will vary within the department’s field of study.

ENGR 5993 - Individual Study in Engineering
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

ENGR 5994 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

ENGR 5995 - Thesis in Engineering
Credit will vary from 1 to 3 hours. Subject matter will vary within the department’s field of study.

ESFR 5013 - Found of Educational Research
Students in this course will consider the research process on a continuum from consumer to researcher and will develop a basic understanding of quantitative and qualitative research methods appropriate for use in education and other professional settings. Included in this course are practical experiences in locating, interpreting, and critiquing scholarly research studies, and in synthesizing findings from research literature. The course provides experience in developing research proposals and analysis of quantitative and qualitative data.
### Graduate Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>ESFR 5112</td>
<td>Modern Philosophies of Education</td>
<td>This course is a study of current educational philosophies with a special emphasis on those of the United States. It provides for an understanding and application of philosophical theories within the educational setting.</td>
</tr>
<tr>
<td>ESFR 5142</td>
<td>History of Education</td>
<td>This course examines the historical perspective and impact of the political economy, prevailing ideology, educational practices, educational problems, and major contributions by educational leaders and theorists in American schools. This course also analyzes key educational issues dealing with how diversity has impacted American schools.</td>
</tr>
<tr>
<td>ESFR 5153</td>
<td>Advanced Developmental Psychology in Educ Setting</td>
<td>This course provides an advanced level review of human development across the life span with emphasis on the factors impacting development of children and adolescents. Examination and application of developmental theories and research relevant to professionals working in educational settings is a primary focus of this course. PTE 5333, Meeting Secondary Students' Needs, is a prerequisite for this course for all secondary education majors; this prerequisite will be strictly enforced.</td>
</tr>
<tr>
<td>ESFR 5172</td>
<td>Educational Sociology</td>
<td>This course examines the school's functions in a democratic society and its relationship to the total culture particularly to social problems.</td>
</tr>
<tr>
<td>ESFR 5203</td>
<td>Advanced Educational Psychology</td>
<td>This course is a study of the principles of learning and factors that affect learning motivation. Current theoretical perspectives and research findings regarding human development, learning, and motivation are examined as these influence educational decisions and the development of effective student-centered learning environments. For all secondary education majors, ESFR 5333, Meeting Secondary Students' Needs and ESFR 5523, Designing Instruction for Secondary Students are prerequisites for this course; this prerequisite will be strictly enforced.</td>
</tr>
<tr>
<td>ESFR 5221</td>
<td>Contemporary Class Issues</td>
<td>This course consists of three major components related to teaching: urban education, wellness, and legal and professional aspects.</td>
</tr>
<tr>
<td>ESFR 5222</td>
<td>Problems of Teaching in Secondary Schools</td>
<td>This course provides a critical study of the major problems of instruction common to secondary schools.</td>
</tr>
<tr>
<td>ESFR 5333</td>
<td>Meeting Secondary Students' Needs</td>
<td>This course focuses on understanding adolescents' physical, cognitive, and psychosocial development and the impact of family, community, and culture. Understanding these influences, as well as the needs of special learners, will foster the choice of appropriate strategies to meet the developmental and instructional needs of secondary students. Field Applications in secondary schools allow students to apply course concepts in actual classrooms. Prerequisite(s): Enrollment open to Secondary Education majors only.</td>
</tr>
<tr>
<td>ESFR 5383</td>
<td>Principles of Tests &amp; Measurements</td>
<td>This course examines test and measurement principles (psychometric statistics, reliability and validity). Major emphasis is placed on different types of educational and psychological assessment, including group and individual approaches to intelligence, aptitude, achievement, interest and personality.</td>
</tr>
<tr>
<td>ESFR 5403</td>
<td>Educational Statistics</td>
<td>This course provides an introduction to the basic principles of organization and treatment of statistical data as utilized by educational professionals in various educational settings.</td>
</tr>
<tr>
<td>ESFR 5413</td>
<td>Foundations of Gifted Education</td>
<td>This course provides an introduction to the historical, philosophical, and cultural foundations required for professionals in gifted education. Characteristics and needs of gifted children and youth as well as general information on procedures used to identify gifts and talents are explored. Programs and models for gifted learners along with current state and national standards for gifted education are also examined.</td>
</tr>
<tr>
<td>ESFR 5423</td>
<td>Social-Emotional Development - Gifted Students</td>
<td>This course provides an overview of the social and emotional developmental issues surrounding gifted students and offers participants in-depth exploration, including current research of the role of affect in developing effective learning environments for gifted learners. Topics of study include special populations, emotional characteristics, vocational concerns, self-concept, and self-esteem. Influences of diversity in culture, family, friendships, expectations, gender, and self and societal pressures on gifted students and their identity development are examined. The teacher's role in preventing or remediating affective problems related to giftedness is also explored.</td>
</tr>
<tr>
<td>ESFR 5433</td>
<td>Curriculum Strategies-Gifted</td>
<td>This course provides a basic framework for developing curriculum and instruction for gifted learners P-12. Course content is focused on design strategies to help participants to articulate goals, learning outcomes, instructional strategies, and assessments for gifted, creative, and talented learners based on their individual needs and characteristics. Strategies and models include modification, adaptation, and differentiation by content, process, and product as well as creating learning environments to enhance gifted learners that will be used in the practicum clinical experience. Prerequisite(s): ESFR 5413 and graduate standing.</td>
</tr>
<tr>
<td>ESFR 5443</td>
<td>Identification &amp; Assessment for Gifted Education</td>
<td>Students will develop working knowledge of current systems of identification including appropriate tools for assessment and their interpretation. Students will examine the impact of language, culture, ethnicity, gender, family contexts, and other exceptionality on identification processes. Participants will also investigate strategies for assessment of student achievement and use of assessment in planning and adjusting gifted student-learning experiences. Legal and professional ethical concerns surrounding identification of students for gifted education services are also examined. Prerequisite(s): ESFR 5413 and graduate standing.</td>
</tr>
<tr>
<td>ESFR 5453</td>
<td>Leadership &amp; Communication-Gifted Education</td>
<td>Participants will explore the impact of laws and public policy on leadership, communication, and collaboration in multiple areas of gifted education. Acquisition of foundational knowledge and skills required by teacher-leaders to implement communication, collaboration, and consultation in multiple areas of gifted education, as aligned to national, state, and local standards, and to evidence-based and most current best practice in gifted education will be the primary areas of focus in this course. Prerequisite(s): ESFR 5413 and 5433 and graduate standing.</td>
</tr>
</tbody>
</table>
ESFR 5483 - Technology for Secondary Teachers
Technology for Secondary Teachers focuses on the utilization of current technology for classroom instruction, student assessment, and professional development. The course also examines the social, ethical, legal, human and equity issues surrounding the use of technology in the secondary classroom. Prerequisite(s): Graduate standing.

ESFR 5533 - Managing Secondary Classrooms
This course prepares students to utilize current theory and best practices related to behavior, motivation, and communication to create learning environments that encourage positive social interaction, self-motivation, and active engagement in learning. Additionally, students will create and rehearse approaches to developing professional relationships with students' parents and/or guardians. Field Applications in secondary schools allow students to apply course concepts in actual classrooms. Prerequisite(s): Enrollment is open to Secondary Education majors only.

ESFR 5623 - Secondary Class Assessment
This course focuses on the design, delivery, analysis, and utilization of results of classroom assessments to enhance student learning in the secondary classroom. Students will also learn to utilize data from standardized tests and make appropriate instructional decisions. Additionally, the course will examine the standardized testing process, as well as legal, ethical, and diversity issues in assessment. Prerequisite(s): Enrollment open to Secondary Education majors only.

ESFR 5893 - Capstone Research Experience
This course requires students to demonstrate their cumulative knowledge in Professional Education and in their teaching specialization area to complete and present a research project. Prerequisite(s): PTE 5013 or ESFR 5013 and complete a minimum of 19 hours of graduate coursework.

ESFR 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

ESFR 5910 - Seminar/Special Topics
Credit will vary from 1 to 3 hours. Subject matter will vary within the department's field of study.

ESFR 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

ESFR 5930 - Independent Study
Credit will vary from 1 to 3 hours. Subject matter will vary within the department's field of study.

ESFR 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

FAC 5113 - Family Resource Management
This course is designed to provide a framework for examining the key areas of personal and family financial decision-making and goal setting, consumer issues, decisions and the relationship of resource allocation for the family throughout the life cycle.

FAC 5123 - Professional Issues
This course is planned to assist the student in identifying professional and personal competencies needed in emerging home economics areas. Opportunities for exploring and assessing self-interests and abilities as well as the identification of competencies needed for professional level employment in a specialized area will be encouraged and required.

FAC 5173 - Program Development
This class is designed to provide home economics education majors with knowledge and skills needed for developing a vocational and general home economics program.

FAC 5453 - Consumer Management
This course is planned to assist the student in identifying professional and personal competencies needed in emerging home economics areas. Opportunities for exploring and assessing self-interests and abilities as well as the identification of competencies needed for professional level employment in a specialized area will be encouraged and required.

FAC 5523 - Designing Instruction for Secondary Students
This course prepares students to design and teach effective lessons to facilitate student learning in secondary schools based on appropriate theoretical frameworks. Multiple strategies for enhancing student learning will be explored, including, but not limited to, lecture, demonstration, simulation, projects, experiments, dramatization, and group processes. Additionally, methods for differentiating instruction and integrating curriculum will be explored. Students will apply Oklahoma Academic Standards, National Board Standards and/or other Oklahoma standards in lesson planning and delivery. Prerequisite(s): Enrollment open to Secondary Education majors only.

FAC 5533 - Managing Secondary Classrooms
This course prepares students to utilize current theory and best practices related to behavior, motivation, and communication to create learning environments that encourage positive social interaction, self-motivation, and active engagement in learning. Additionally, students will create and rehearse approaches to developing professional relationships with students' parents and/or guardians. Field Applications in secondary schools allow students to apply course concepts in actual classrooms. Prerequisite(s): Enrollment is open to Secondary Education majors only.

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FAC 5920 - Workshop
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FAC 5930 - Independent Study
Credit will vary from 1 to 3 hours. Subject matter will vary within the department's field of study.

FAC 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.
FINANCE (FIN)
Department of Finance

FIN 5203 - Contemporary Problems In Finance
A readings and case course designed to increase the practical realism of the problems faced by financial managers in the modern business world. The course provides an environment that enhances the student’s understanding of textbook issues and current business problems by requiring article reviews, case analyses, report writing, oral presentations, and participatory discussions of contemporary issues in business, economics and finance. Prerequisite(s): Completed all prerequisites for the MBA Program.

FIN 5223 - International Finance
A study of the financial problems of the multinational business firm. The course includes lectures, case discussions, and contemporary readings to extend both modern and traditional theories of financial management to the area of international business operations. Prerequisite(s): FIN 5333.

FIN 5233 - Investment Analysis
A study of the various approaches to the selection and timing of investment opportunities for the individual and for the business firm. The course includes a review of traditional and modern theories of investment strategy and portfolio analysis. Case discussions, problem solving and contemporary readings are utilized. Prerequisite(s): FIN 5333.

FIN 5243 - Money And Capital Markets
A study of the money and capital market segments of the U.S. Financial System. Emphasis is placed on the importance and role of various interest rates for lending and investment in the economy, their determination, and their measurement. The course also includes discussion of current readings, case analysis, and problem solving relating to the management of financial institutions. Prerequisite(s): Completed all prerequisites for the MBA Program.

FIN 5253 - Capital Budgeting
A theory and tools course that emphasizes the economic analysis of the firm’s long-term investment opportunities. Specific emphasis is placed on determining the optimal capital budgeting techniques and processes. Extensive attention is given to the problem of explicitly incorporating risk into the analysis and to the problem of modifying decision rules when there are constraints on budget size. Prerequisite(s): FIN 5333.

FIN 5333 - Financial Administration & Control
Methods and problems involved in the financial administration of the business firm. Special attention to planning for, obtaining, controlling, and allocation of funds. Prerequisite(s): Completed all prerequisites for the MBA Program.

FIN 5353 - Derivative Securities
A study of various derivative securities traded in current financial markets. The course introduces the characteristics and pricing of various derivatives (e.g., put options, call options, forward contracts, futures contracts, and swaps) and demonstrates their use in investing and portfolio management. The course includes lectures, case discussions, computer analysis, and contemporary readings. Prerequisite(s): FIN 5333.

FIN 5413 - Financial Analysis w/ Computer
The use of computers and information technology is examined in relation to financial topics. Topics include, but are not limited to, financial statements, cash budgets, corporate performance evaluation, financial forecasting, break-even and leverage analysis, asset valuation, rates of return, the cost of capital, capital budgeting, investment applications, logical and financial functions, and graphs. Prerequisite(s): Completed all prerequisites for the MBA Program.

FIN 5423 - Employee Benefit Planning
This course examines the approaches to protecting employees’ financial security from the perspective of businesses by studying the basic concepts and managerial considerations underlying the group insurance mechanism for providing life, health, disability and retirement plans. Topics covered include the theory and practice regarding employee benefits plan design, administration, cost, funding regulation and tax considerations. Prerequisite(s): Completed all prerequisites for the MBA Program with a minimum grade: C.

FIN 5900 - Practicum In Finance
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

FIN 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.

FIN 5920 - Workshop in Finance
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

FIN 5930 - Individual Study In Finance
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports.

FIN 5940 - Field Study In Finance
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

FIN 5950 - Internship In Finance
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

FIN 5960 - Institute In Finance
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

FIN 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

FIN 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

FOREIGN LANGUAGE (FLGN)
Department of Modern Languages, Literature &
### Cultural Studies

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FMCD 5023</td>
<td>Theories in Family &amp; Child Studies</td>
<td>This graduate course is an organized study of major theoretical approaches to the study of family and child development. Prerequisite(s): 9 hours behavioral science course work. Enrollment open to Family and Child Studies majors only.</td>
</tr>
<tr>
<td>FMCD 5043</td>
<td>Family Dynamics and Sexuality</td>
<td>This course is an in-depth study of the family systems theory and circumplex model as applied to interpersonal relations. Areas to be examined include communication, conflict resolution, diversity and strengths in families, and living in a global world. The course will also examine the historical, theoretical, and research perspectives of human sexuality through the life span. Prerequisite(s): Six hours of marriage, family, or related courses (psychology, sociology).</td>
</tr>
<tr>
<td>FMCD 5102</td>
<td>Case Management</td>
<td>This course covers principles, practices and issues in case management. The course will increase self-awareness and familiarize students with the concepts and skills required to work with clients in a case management role. The course will also provide skills and knowledge to supervise case management work in the field. Prerequisite(s): Enrollment open to Family &amp; Child Studies-Family Support Specialist and Family Life Education majors only. Admission to the graduate program.</td>
</tr>
<tr>
<td>FMCD 5111</td>
<td>Orientation to Grad Studies</td>
<td>This course is designed to highlight core communication skills in graduate studies. Specific attention is given to improving writing habits and skills. Prerequisite(s): Enrollment open to Family and Child Studies graduate majors only.</td>
</tr>
<tr>
<td>FMCD 5333</td>
<td>Models of Marriage and Family Therapy</td>
<td>Models of Marriage and Family Therapy will cover the history of marriage and family therapy, theoretical models of MFT, and emerging models and current adaptations of models. Prerequisite(s): Enrollment open to Family &amp; Child Studies-LMFT majors only.</td>
</tr>
<tr>
<td>FMCD 5342</td>
<td>Infant Mental Health</td>
<td>This course is an historical, theoretical, and empirical overview of the field of infant mental health. The foundations of infant mental health and direct work with infants and parents will be covered. This course explores the role and function of the infant mental health specialist and the use of relationship and reflection in work with families. Students will gain an understanding of the impact that early trauma, family violence, poverty and developmental disabilities can have on young children.</td>
</tr>
<tr>
<td>FMCD 5363</td>
<td>Ethics/Issues In Family/Child Study</td>
<td>The study includes current issues that influence, affect and change families. The topic of ethics will permeate all issues and be discussed separately. To be taken concurrently with the last semester of the graduate program.</td>
</tr>
<tr>
<td>FMCD 5373</td>
<td>Lifespan Human Development Child/Family Studies</td>
<td>This course is a study of theory and research in life-span developmental processes from birth to death, with appropriate applications in relevant occupational fields such as: infant programs, parent, school age, adolescence, special needs, middle age and aging. Prerequisite(s): Written instructor permission.</td>
</tr>
<tr>
<td>FMCD 5423</td>
<td>Linking Families &amp; Community</td>
<td>This course is a study of programs in the community that offer support, education, assistance, assessment and intervention to families. Students will research program’s mission and goals and effective means of program development, delivery and evaluation. Program methodology and evaluation will also be examined. Prerequisite(s): Enrollment open to Family and Child Studies majors only.</td>
</tr>
<tr>
<td>FMCD 5433</td>
<td>Families in Crisis</td>
<td>The course is designed to introduce the student to a better understanding of the traumatic stress from both individual and systemic theoretical perspectives. It will introduce and review the theoretical and historical beginnings of the concept of trauma to include the acceptance of post-traumatic disorder (PTSD) as a diagnosis in the DSM 5. The course will discuss trauma reactions, effects of stressful events, and treatment. A focus will be to understand the common and unique experiences of families.</td>
</tr>
</tbody>
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### FAMILY AND CHILD DEVELOPMENT (FMCD)

#### Department of Human Environmental Science

<table>
<thead>
<tr>
<th>Course Code</th>
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<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLGN 5000</td>
<td>Workshop In Foreign Language</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given. No more than 2 hours of workshop may be counted on a master’s degree.</td>
</tr>
<tr>
<td>FLGN 5103</td>
<td>Literature Of French/Hispanic Carribean</td>
<td>This course provides an introduction to French and Hispanic Carribean literary movements. Texts are available in original French and/or Spanish, and also in English translation. Concepts introduced include colonial independence and patriotism, negritude, social injustice, the spirituality of santeria and voodoo, among others. Prerequisite(s): 17 hours in major (French, Spanish or others) and permission of the instructor.</td>
</tr>
<tr>
<td>FLGN 5900</td>
<td>Practicum In Foreign Language</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>FLGN 5910</td>
<td>Seminar / Special Topics</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>FLGN 5920</td>
<td>Directed Reading</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>FLGN 5930</td>
<td>Individual Study</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>FLGN 5950</td>
<td>Internship In Foreign Language</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>FLGN 5960</td>
<td>Institute In Foreign Language</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>FLGN 5970</td>
<td>Study Tour</td>
<td>Credit will vary. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>FLGN 5990</td>
<td>Thesis</td>
<td>Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.</td>
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</tbody>
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Graduate Course Descriptions

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University of Central Oklahoma Graduate Catalog 2018-2019

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234
**FMCD 5523 - Family Law and Public Policy**
This course is a general survey of government programs and policies that impact on the family. Topics to be covered include child care, aging, legal aspects of family life, mental health, generational equity, family violence, income maintenance, and family impact analysis. Students will be encouraged to critique past and current policies as well as develop a research policy agenda for the future.

**FMCD 5543 - Leadership Comm and Advocacy**
Leadership, Communication and Advocacy will explore the theories and principles of leadership and communication skills while working with family agencies. Leadership and communication skills, characteristics and techniques will be examined. Current issues of advocacy and legislation will be discussed. Additional areas of study will include professional organizations, certifications, and career development.

**FMCD 5712 - Parent Education**
The course is an in-depth study of programs that facilitate parent education. The history of parent education programs, group dynamics, and home-based parent education will be discussed.

**FMCD 5900 - Practicum**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**FMCD 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Directed intensive study of selected problems or special topics. Prerequisite(s): An undergraduate minor in the subject matter area and permission of graduate advisor.

**FMCD 5920 - Workshop**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**FMCD 5930 - Individual Study**
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports. Prerequisite(s): An undergraduate major in the subject matter area and permission of graduate advisor.

**FMCD 5940 - Field Study**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study. Prerequisite(s): An undergraduate minor in the subject matter area and written permission of graduate advisor.

**FMCD 5950 - Internship**
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**FMCD 5960 - Institute**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**FMCD 5970 - Study Tour**
Credit will vary. Subject matter will vary within the department’s field of study.

**FMCD 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

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**FMKT 5063 - Fashion Accessories**
Analysis of the accessory needs of specialized market segments and the products produced to meet those needs with emphasis on product design, marketing, and merchandising. Prerequisite(s): FMKT 1303 or FMKT 3113.

**FMKT 5073 - Heritage of Dress II**
An in-depth study of the development of costume and fashion from the Ancient Egyptians to present day with an emphasis on interpreting and analyzing current fashion trends from a historical perspective. Prerequisite(s): Six credits in history/humanities or permission of the instructor.

**FMKT 5093 - No-Textiles Accessories**
Analysis of the non-textile accessory needs of specialized market segments and the products produced to meet those needs with emphasis on product design, marketing and merchandising. Prerequisite(s): FMKT 3113.

**FMKT 5621 - Dress for the Professional**
This course is designed to relate one’s dress to career demands and successes and to discover an affordable, accomplished, versatile, and professional approach to clothing selection and wardrobe coordination. Designed for both male and female students.

**FMKT 5632 - Business/Professional Etiquette**
This course will address situations in the world of business regarding communication, professional dress, networking, as well as, meal/dining etiquette. Students will gain knowledge regarding business etiquette globally that will strengthen their confidence as they enter the world of work, and the business professional will acquire ease in any business situation. Prerequisite(s): Graduate standing.

**FMKT 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Directed intensive study of selected problems or special topics. Prerequisite(s): An undergraduate minor in the subject matter area and written permission of graduate advisor.

**FMKT 5920 - Workshop**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**FMKT 5930 - Individual Study**
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports. Prerequisite(s): An undergraduate major in the subject matter area and permission of graduate advisor.

**FMKT 5940 - Field Study**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study. Prerequisite(s): An undergraduate minor in the subject matter area and written permission of graduate advisor.

**FMKT 5950 - Internship**
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**FMKT 5960 - Institute In Fashion Marketing**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**FMKT 5970 - Study Tour**
Credit will vary. Subject matter will vary within the department’s field of study.

**FMKT 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

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**FUNERAL SERVICE (FNRL)**
Department of Funeral Service
**FNRL 5900 - Practicum In Funeral Service**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**FNRL 5910 - Seminar / Special Topics**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**FNRL 5920 - Workshop**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**FNRL 5930 - Individual Study**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**FNRL 5940 - Field Study**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**FNRL 5950 - Internship In Funeral Service**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**FNRL 5960 - Institute In Funeral Service**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**FNRL 5970 - Study Tour**  
Credit will vary. Subject matter will vary within the department’s field of study.

**FNRL 5990 - Thesis**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

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**FRCH 5930 - Individual Study**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. May be repeated for credit up to four hours with change in content.

**FRCH 5940 - Field Study In French**  
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

**FRCH 5950 - Internship In French**  
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**FRCH 5960 - Institute In French**  
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**FRCH 5970 - Study Tour**  
Credit will vary. Subject matter will vary within the department’s field of study.

**FRCH 5990 - Thesis**  
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

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**FORENSIC SCIENCES (FRSC)**  
**Forensic Science Institute**

**FRSC 5143 - Crime Scene Reconstruction**  
Crime Scene Reconstruction serves as a comprehensive overview of computer-based and remote sensing technologies in crime scene reconstruction. The focus of this crime scene course is on the use of computer-based, automated data collection, reconstruction, analysis, and courtroom presentation technologies. Students will demonstrate and enhance their understanding of lecture material through participation in practical crime scene exercises.

**FRSC 5153 - Crime Scene Photography**  
Crime Scene Photography expands on the basic crime scene photography module taught in Crime Scene Processing, with an emphasis on advanced photographic techniques particularly well-suited to crime scene photography. Students will learn and practice specific photographic techniques relating to composition, basic exposure concepts, focus and depth of field, electronic flash techniques, and proper methodology for creating photo documentation of various types of crime scenes. Photographic concepts will be presented through lecture and demonstration. Students will undertake a number of field exercises designed to develop and test their skills in each area of study. Field exercises will be conducted on the UCO campus in the vicinity of the Forensic Science Institute. Prerequisite(s): FRSC 3043.
FRSC 5163 - Medicolegal Forensics
Death investigations are among the most important, complex, and challenging forensic science responsibilities. Such investigations require an in-depth synthesis of a broad range of Forensic Science disciplines, expertise, and analyses. This course serves an an introduction to all aspects of the application of forensic science to death investigation procedures, processes, and protocols. Students will learn the methodologies and major steps involved in the investigation of untimely death and will become proficient in developing, documenting, conducting, and managing various types of death investigation scenarios. Students will develop skills and knowledge targeted at the integration and synthesis of diverse forensic science disciplines into the death investigation process. Among the skills which will be developed are: information gathering and evaluation; behavioral and interview assessment; scene strategy development and implementation; field and laboratory evaluation of remains; evidence recognition, preservation, documentation, and analyses; autopsy procedures and protocols; legal and regulatory matters, expert testimony; and ethics practices and evaluation. Prerequisite(s): FRSC 3043.

FRSC 5243 - Forensic Psychology
Forensic Psychology provides an overview to the field with a special emphasis in criminal areas. Students will develop an understanding of the most common intersections between forensic mental health and the law, including the criteria required to work as a professional in various capacities.

FRSC 5253 - Forensic Science Analysis & Laboratory
Forensic Science Analysis serves as an introduction to classical and modern forensic science techniques with emphasis on the theory of modern impression evidence examinations. Techniques covered include latent fingerprints, handwriting and related document examinations, firearms and toolmarks, and fracture glass examinations. Automated evidence database applications are discussed and practiced. Emphasis is given to quality control and quality assurance as practiced in today’s crime laboratories. Prerequisite(s): FRSC 2503. Concurrent enrollment in FRSC 5253L required.

FRSC 5253L - Forensic Science Analysis Laboratory
This is the laboratory course that accompanies FRSC 5253. Prerequisite(s): FRSC 2503. Concurrent enrollment in FRSC 5253L required.

FRSC 5263 - Forensic and Biological Anthropology
Forensic anthropology is the application of the theories and principles of biological anthropology to the identification of human remains in order to determine their legal significance. Forensic anthropologists are most often called to scenes when highly decomposed or skeletal remains are discovered. The main role of the forensic anthropologist is to determine if remains are human, if they are recent or ancient, who they were, and what happened to them. Using techniques derived from biological anthropology, remains are examined to illicit age, sex, ancestry, and other unique characteristics which may be used to identify the individual. This course will guide students through the processes and techniques used by forensic anthropologists to achieve these goals. Students will gain a detailed knowledge of human skeletal anatomy and be able to distinguish human from animal remains. They will also gain an in-depth understanding of taphonomic processes such as decomposition which affect the condition and recoverability of remains. Prerequisite(s): FRSC 2503 and any biology course.

FRSC 5273 - Advanced Fingerprint Analysis
Advanced Fingerprint Analysis focuses on the application of AFIS technology to analyze fingerprints and palm prints, to compare exemplars to unknown prints, and to evaluate prints to form a conclusion of identification, elimination, or inconclusive. Students will review ACE-V methodology, learn advanced physical and chemical processing techniques, learn the application of the RUVIS microscope for fingerprint examination, and explore the use of fingerprints within the judicial system. Students will also discuss the vulnerabilities that may occur in the classification and analysis of fingerprints. Students will apply learned techniques and technology to a mock case and will be responsible for collecting and analyzing prints as well as testifying in regard to their evidence. Prerequisite(s): FRSC 5253.

FRSC 5303 - Forensic Archaeology
This course is an introduction to traditional archaeological methods and how those methods are then used in a forensic setting primarily for the collection and preservation of evidence. This will include basic skeletal biology and the taphonomic process. Emphasis is given to classical methods of searching and gridding before modern electronic methods are taught. The student will, while working in groups, complete an exhumation of a carcass in the field component of the course. The graduate level requires the student to direct a team in field work and lead that team in group presentations. Prerequisite(s): FRSC 2503.

FRSC 5313 - Forensic Pathology
Forensic Pathology serves as a comprehensive study of multidisciplinary scientific principles and techniques which comprise the modern basis in human death investigation. Emphasis is placed on forensic pathology and odontology of human remains. Prerequisite(s): FRSC 2503.

FRSC 5323 - Forensic Toxicology & Laboratory
Forensic Toxicology serves as a “hands-on” introduction to modern toxicological methods in forensic science. Topics and analytical techniques covered include sampling preparation, instrumentation, and the analyses of alcohol, drugs of abuse, therapeutic drugs, carbon monoxide, and cyanide in biological fluids and tissues. Prerequisite(s): FRSC 2503 and CHEM 3454. Concurrent enrollment in FRSC 5323L is required.

FRSC 5323L - Forensic Toxicology Laboratory
This laboratory course accompanies FRSC 5323. Prerequisite(s): FRSC 2503 and CHEM 3454. Concurrent enrollment in FRSC 5323L is required.

FRSC 5333 - Forensic Molecular Biology & Laboratory
This lecture and laboratory course presents advanced principles of serology and DNA identification techniques with forensic laboratory applications. This course includes the theory and practice of techniques used to identify and individualize biological samples having a forensic interest. Related database applications are discussed and practiced. Emphasis is given to quality control and quality assurance as practiced in today’s crime laboratory. Prerequisite(s): BIO 3304. Concurrent enrollment in FRSC 5333L is required.

FRSC 5333L - Forensic Molecular Biology Laboratory
This course is a laboratory course designed to accompany FRSC 5333. Prerequisite(s): BIO 3304. Concurrent enrollment in FRSC 5333L is required.
### Graduate Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
<th>Prerequisites/Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>FRSC 5343</td>
<td>Forensic Serology &amp; Laboratory</td>
<td>Forensic Serology is structured to provide advanced concepts of serological techniques as it applies to the collection, preservation and examination of biological evidence. This course includes the theory and practice of techniques used to identify and individualize biological samples having a forensic interest. Emphasis is given to quality control quality assurance as practiced in today’s crime laboratory. Prerequisite(s): FRSC 2503. Concurrent enrollment in FRSC 5343L is required.</td>
<td></td>
</tr>
<tr>
<td>FRSC 5343L</td>
<td>- Forensic Serology Laboratory</td>
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<tr>
<td>FRSC 5353</td>
<td>- Firearm and Toolmark Analysis</td>
<td>Firearm &amp; Toolmark Analysis allows students to gain a general understanding of basic firearm and toolmark techniques and carry out practical laboratory assignments under the supervision of the instructor. Students will receive instruction and hands-on experience with firearms (rendered safe), ammunition components, toolmark samples, serial number restorative techniques, and cartridge care/projectile macroscopic analysis. Prerequisite(s): FRSC 4253 or 5253.</td>
<td></td>
</tr>
<tr>
<td>FRSC 5353L</td>
<td>- Advanced Crime Scene Technique</td>
<td>Advanced Crime Scene Techniques will present the latest research and current application of new technologies to crime scene processing. Topics include crime scene mapping, 3D technologies, panoramic photography and other advanced evidence collection techniques. Students will also explore approaches to managing complex crime scene investigations and media relations.</td>
<td></td>
</tr>
<tr>
<td>FRSC 5413</td>
<td>- Bloodstain Pattern Analysis</td>
<td>Bloodstain Pattern Analysis investigates the significance of bloodstain patterns found at violent crime scenes. Using bloodstain pattern analysis the student will learn to identify the occurrences that took place during and after a violent attack. Several practical exercises are used to assess the skill and knowledge of the student. Students will demonstrate and enhance their understanding of lecture material through participation in actual practical mock crime scene exercises.</td>
<td></td>
</tr>
<tr>
<td>FRSC 5423</td>
<td>- Bloodstain Pattern Analysis II</td>
<td>This is the second course in the study of bloodstain pattern analysis. The course provides a comprehensive review of this highly specialized crime scene reconstruction tool. Students will utilize current literature, case studies, laboratory experiments and computer simulation to gain experience in using bloodstain patterns in reconstructing crime scenes. Emphasis is given to the mathematical formulas and calculations involving trigonometry and physics. Emphasis is also given to preparing students to become qualified as expert witnesses for court testimony. Prerequisite(s): FRSC 5413.</td>
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</tr>
<tr>
<td>FRSC 5443</td>
<td>- Forensic Arson Investigation</td>
<td>This is a comprehensive course on fire investigation emphasizing the use of specialized forensic techniques for the identification of causes of fires. Major topics included in this course are the chemistry of fire, how to diagram the fire scene, common types of building construction and the effects of construction on how structures burn. Proper collection of physical evidence, documentation, analysis and preservation as related to fire investigations will be emphasized.</td>
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<tr>
<td>FRSC 5464</td>
<td>- Digital Forensics &amp; Lab</td>
<td>Digital Forensics &amp; Lab is designed to provide the student with the fundamental concepts of the forensic analysis of digital evidence. Students will receive step-by-step explanations on how to use the most popular digital forensic tools. Topics include digital imaging, legal restrictions related to personal privacy and electronic communication, examination of FAT and NTFS based file systems, forensic methodologies, and the proper documentation of digital forensic examinations. Prerequisite(s): FRSC 2713 or permission of instructor.</td>
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<tr>
<td>FRSC 5513</td>
<td>- Forensic Chemistry &amp; Laboratory</td>
<td>Forensic Chemistry serves as a “hands-on” introduction to modern forensic chemistry. Topics and analytical techniques covered include sampling and statistics, sample preparation, instrumentation, and analyses related to drugs, arson, explosives, inks, paints and polymer evidence. Prerequisite(s): FRSC 2503 and CHEM 3454. Concurrent enrollment in FRSC 5513L is required.</td>
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<tr>
<td>FRSC 5513L</td>
<td>- Forensic Chemistry Laboratory</td>
<td>This is the laboratory course that accompanies FRSC 5513. Prerequisite(s): FRSC 2503 and CHEM 3454. Concurrent enrollment in FRSC 5513L is required.</td>
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<tr>
<td>FRSC 5533</td>
<td>- Forensic Microscopy &amp; Laboratory</td>
<td>Forensic Microscopy serves as a comprehensive microscopy course in modern forensic casework. Forensic methods and sample handling procedures developed specifically for microscopic samples will be discussed. An emphasis will be placed on microscopic analysis of forensic fiber and paint samples. Techniques covered include microscope alignment and focus, synthetic fiber and paint examination and developing and fine tuning sample handling skills with microscopic samples. Prerequisite(s): FRSC 2503 and (BIO 1114 or 1204 or 1214). Concurrent enrollment in FRSC 5533L is required.</td>
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<tr>
<td>FRSC 5533L</td>
<td>- Forensic Microscopy Laboratory</td>
<td>This is the laboratory course that accompanies FRSC 5533. Prerequisite(s): FRSC 2503 and (BIO 1114 or 1204 or 1214). Concurrent enrollment in FRSC 5533L is required.</td>
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<tr>
<td>FRSC 5543</td>
<td>- Advanced Firearm and Toolmark</td>
<td>Advanced Firearm and Toolmark Techniques and Laboratory is an advanced course focused on chemical restorative techniques and advanced scientific applications and techniques routinely seen in Firearm and Toolmark examinations. Techniques covered include distance determination, caliber and weapon determination, serial number restoration, toolmark examination, cartridge case/projectile macroscopic analysis, and courtroom testimony. Emphasis is given to quality control and quality assurance as practiced in today’s crime laboratories. Prerequisite(s): FRSC 5353. Concurrent enrollment in FRSC 5543L is required.</td>
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<tr>
<td>FRSC 5543L</td>
<td>- Adv Firearm and Toolmark Laboratory</td>
<td>FRSC 5543L is the laboratory course that accompanies FRSC 5543. Prerequisite(s): FRSC 5353. Concurrent enrollment in FRSC 5543L is required.</td>
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<tr>
<td>FRSC 5553</td>
<td>- WMD Forensics</td>
<td>Weapons of Mass Destruction (WMD) Forensics will cover chemical, biological, radiological, nuclear, and explosive (CBRNE) agents associated with domestic and international terrorism events. Students will be introduced to crime scene processing involving CBRNE events and the corresponding laboratory and field analyses. Prerequisite(s): FRSC 2503 or equivalent.</td>
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</tbody>
</table>
FRSC 5613 - Advanced Forensic DNA Analysis
Advanced Forensic DNA Analysis focuses on the specific principles and modern procedures used in the analysis of forensic DNA evidence. Other topics include current research and development for forensic DNA instrumentation and applications, statistical interpretation of results, and case report writing. Students will research and present on historical forensic cases and current discussion topics in the field of DNA analysis. Prerequisite(s): FRSC 5333.

FRSC 5634 - Digital Forensic Tools & Analysis & Lab
Digital Forensics Tools and Analysis & Lab will expose students to advanced concepts in digital forensic analysis and provide an in-depth study of the current tools used in the examination of digital evidence. Topics include: advanced legal concepts, analyzing media with Forensic Toolkit, EnCase, and open source tools, Windows registry analysis, acquisition and analysis of volatile data, E-mail analysis, data hiding techniques, metadata, data carving and log analysis. Prerequisite(s): FRSC 5464 or permission of instructor.

FRSC 5654 - Mobile Device Forensics & Lab
Mobile Device Forensics and Lab will present students with proper methodologies in the forensic examination of mobile digital devices. Students will use proper techniques for the collection and preservation of digital evidence on mobile devices and then will use current digital forensic tools to identify and recover data located on cell phones, tablets, and other hand-held digital devices. Prerequisite(s): FRSC 5464 or permission of instructor.

FRSC 5713 - Forensic Pharmacology
Forensic Pharmacology is an advanced course in modern toxicology related to therapeutic, illicit, and abused drugs. Topics covered include different types of cases encountered in forensic pharmacology; how the body reacts to and handles drugs and other exogenous substances when they are introduced into the body; understanding the effect of atypical enzyme isoforms on the course of drugs through the body and the implications for interpretation of analytical toxicology results; and the knowledge and understanding involved in formulating an opinion about drugs introduced into the body (doses, times, whether acute or chronic) and whether the drugs caused any effect (therapeutic, toxic, lethal) on the body. Prerequisite(s): FRSC 5323.

FRSC 5863 - Expert Witness
Expert Witness provides an in-depth analysis of the inter-relationship of science and the law. Topics will include the federal rules of evidence, case law impacting the admission of forensic science evidence, and the role and responsibilities of an expert witness in U.S. courts. Students will explore the ethical responsibilities of the forensic scientist as an expert witness and experience testifying as an expert witness in a mock trial setting. Prerequisite(s): FRSC 5892.

FRSC 5873 - Research Methods in Forensic Science
Research Methods in Forensic Science is designed to acquaint students with quantitative and qualitative research methodologies, including an in-depth analysis of the following: conceptualization of research, types of sampling strategies, data collection methods, research design, and proposal writing. Prerequisite(s): permission of the instructor.

FRSC 5881 - Management and Leadership
Management and Leadership in Forensic Science is designed to acquaint students with a variety of critically important concepts in forensic science to include legal issues for managers related to privacy, records, hiring, termination, and performance; leadership and management styles; chain of command structures; professional responsibility and internal inquiry matters; and understanding expectations of managers on new and seasoned employees. In addition, the students will be introduced to current topics in forensic science management and leadership through a special seminar series. Prerequisite(s): FRSC 5873.

FRSC 5892 - Professional Issues in Forensic Science
Professional Issues in Forensic Science is designed to acquaint students with a variety of critically important concepts in forensic science to include: law and science interface, current challenges in analysis and testimony, quality control and quality assurance implementation, case work management and crime lab management. In addition, the students will be introduced to current topics in forensic science through a special seminar series. Prerequisite(s): FRSC 5873.

FRSC 5900 - Practicum In Forensic Science
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

FRSC 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

FRSC 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

FRSC 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Prerequisite(s): Permission of instructor.

FRSC 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

FRSC 5950 - Internship In Forensic Science
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

FRSC 5960 - Institute In Forensic Science
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Prerequisite(s): Permission of instructor.

FRSC 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

FRSC 5990 - Thesis
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Prerequisite(s): Permission of instructor.

GENERAL SCIENCE (GENS)
Department of Engineering and Physics

GENS 5900 - Practicum In General Science
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

GENS 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.
### GEOGRAPHY (GEO)
**Department of History & Geography**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Department's Field of Study</th>
<th>Credit Hours</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GEO 5103</td>
<td>Historical Geography Of The U.S.</td>
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<tr>
<td>GEO 5113</td>
<td>Geographic Information Systems</td>
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<tr>
<td>GEO 5203</td>
<td>German Culture &amp; Civilization</td>
<td></td>
<td></td>
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<tr>
<td>GEO 5223</td>
<td>Advanced German Grammar</td>
<td></td>
<td></td>
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<tr>
<td>GEO 5313</td>
<td>Joh W Von Goethe</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GEO 5333</td>
<td>Advanced German Culture &amp; Civilization</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GEO 5900</td>
<td>Practicum In Geography</td>
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<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GEO 5905</td>
<td>Internship In Geography</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GEO 5930</td>
<td>Individual Study In Geography</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GEO 5990</td>
<td>Thesis</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
</tbody>
</table>

Goethe (1749-1832) shaped the German language and the German cultural landscape like no other author. Students will read several of Goethe’s works and analyze them in the context of seminar discussions, exams and a paper. An essential component of this course is the interrogation of the concept ‘authorship’ in light of the many different Goethean artifacts that are not merely “literary”. Prerequisite(s): Seventeen hours of German course work.

### GERMAN (GERM)
**Department of Modern Languages, Literature & Cultural Studies**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Department's Field of Study</th>
<th>Credit Hours</th>
<th>Prerequisite(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>GERM 5000</td>
<td>Workshop In German</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GERM 5203</td>
<td>German Culture &amp; Civilization</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GERM 5223</td>
<td>Advanced German Grammar</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GERM 5313</td>
<td>Joh W Von Goethe</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
<tr>
<td>GERM 5333</td>
<td>Advanced German Culture &amp; Civilization</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
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<tr>
<td>GERM 5900</td>
<td>Practicum In German</td>
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<td>Eighteen hours of German.</td>
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<tr>
<td>GERM 5910</td>
<td>Seminar / Special Topics</td>
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<tr>
<td>GERM 5930</td>
<td>Individual Study In German</td>
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<tr>
<td>GERM 5950</td>
<td>Internship In German</td>
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<td>Eighteen hours of German.</td>
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<tr>
<td>GERM 5990</td>
<td>Thesis</td>
<td></td>
<td></td>
<td>Eighteen hours of German.</td>
</tr>
</tbody>
</table>

Goethe (1749-1832) shaped the German language and the German cultural landscape like no other author. Students will read several of Goethe’s works and analyze them in the context of seminar discussions, exams and a paper. An essential component of this course is the interrogation of the concept ‘authorship’ in light of the many different Goethean artifacts that are not merely “literary”. Prerequisite(s): Seventeen hours of German course work.

### GERONTOLOGY (GERO)
**Department of Sociology & Substance Abuse Studies**
GERO 5000 - Workshop
Credit will vary from 1 to 2 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given. No more than 2 hours of workshop may be counted on a master's degree.

GERO 5023 - Orientation to Gerontology
The purpose of this course is to present a broad overview of the major concepts and issues relevant to gerontology. These will include theories of aging, health and physiological aspects of aging, environmental design and retirement housing, leisure and recreation.

GERO 5213 - Health & Social Services For Seniors
This course focuses on health and social services available to seniors in the United States providing in-depth understanding of Medicare, Medicaid, Aging Network Services, housing, and private sector services.

GERO 5342 - Politics of Aging
This course focuses on a range of political and policy issues that affect the well-being of seniors and the political realities of developing solutions to these needs and concerns.

GERO 5363 - Psychology of Aging
This course examines the psychological aspects of human aging. Focus areas include, psychological theories of aging, psychological research methods in aging field, dementias/psychopathologies of aging, and sensory, motor, and cognitive changes with aging.

GERO 5443 - Biology of Human Aging
The course examines the biological changes associated with human aging. Emphasis is given to theories of biological aging, maintenance of homeostatis, age changes in each body system, interactions among these systems, and diseases that commonly affect older adults.

GERO 5463 - Bereavement Counseling
This course will discuss death and dying, the stages of grief, hospice, the living will and techniques to be used in counseling the bereaved of all ages.

GERO 5523 - Qualitative Gerontology
This course is an indepth study of qualitative research in Gerontology. Topics covered include methodological techniques, application of findings, and ethical considerations.

GERO 5531 - Drug Issues for Older Adults
This course will examine drug issues concerning older adults including prescription and over-the-counter drugs, problems encountered by the older adult taking multiple medications, substance abuse, health and safety guidelines, marketing effects, and economic concerns.

GERO 5543 - Colloquium in Gerontology
This course is designed to be the culminating experience for all gerontology majors. It will summarize all the work covered in the gerontology program and look at directions for the future in the field of aging. Prerequisite(s): Course should be taken during students last spring semester prior to graduation.

GERO 5523 - Gerontology Research
Gerontology Research focuses on fundamental research concepts, methods, and application in the discipline of Gerontology. This course is designed to build research skills and enable the student to become an efficient and effective consumer of research.

GERO 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

GERO 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

GERO 5920 - Directed Reading
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

GERO 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

GERO 5950 - Internship
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

GERO 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

GERO 5970 - Study Tour
Credit will vary from 1 to 2 hours. Subject matter will vary within the department's field of study.

GERO 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

GUIDANCE (GUID)
Donna Nigh Department of Advanced Professional & Special Services

GUID 5013 - Principles/Ethics School Counseling
This course addresses the principles and ethical characteristics of successful helping professionals. Functions and practices basic to school counseling on both elementary and secondary levels will be examined with a focus on professional, ethical and legal responsibilities. Historical developments, current trends and issues will be addressed. This course includes the characteristics of effective counseling and the development of basic helping skills.

GUID 5113 - Theories/Techniques Group School School Counseling
Introduction to the dynamics of groups by utilizing counseling theories and group techniques. Emphasis is placed on group process in the school setting; evaluation of group dynamics, observation, participation and conducting group counseling activities. Prerequisite(s): GUID 5163.

GUID 5133 - Multicultural Counseling
A study of the use of counseling theories and techniques in pluralistic school settings. Emphasis will be placed on changes in human roles, discrimination on the basis of human characteristics, and concerns of subgroups. Skills such as conflict resolution and helping skills will be applied. Prerequisite(s): GUID 5163.

GUID 5153 - Counseling Intervention Strategies
A study of the theoretical and practical aspects of helping children and adolescents cope with major life stressors common to this age group in contemporary society. Specific needs to be covered include divorce, drugs and alcohol, depression, stress, abuse, and others. Issues related to counseling minorities will be covered. Prerequisite(s): GUID 5163.
**GUID 5163 - Theories/Techniques Individual/School Counseling**
This course is an introduction to individual counseling theory and school counseling techniques. Emphasis is placed on major counseling theories, their underlying philosophies, assumptions and techniques as well as their strengths and weaknesses with an application in the school setting.

**GUID 5172 - Capstone Experience School Counseling**
An integration of the components included in the knowledge base under-girding school guidance and counseling with emphasis on preparation for professional examinations for national and state certification and licensure. Prerequisite(s): GUID 5903.

**GUID 5193 - Abnormal Psychology School Personnel**
A survey of the normal/abnormal continuum of behaviors with emphasis on behaviors that can and cannot be accommodated within institutional teaching/counseling programs. This includes a broad study of the major classifications of psychopathology as well as the etiology, progress and treatment of the disorder, as viewed from the major paradigms.

**GUID 5213 - The Counselor As Consultant**
Theory and practice as a consultant in school, family, and community settings.

**GUID 5253 - Developmental Guidance**
Study of the design and management of a comprehensive developmental guidance program. Emphasis on the planning and implementation of a guidance curriculum appropriate for needs of all students. Prerequisite(s): GUID 5012 and PTE 5203.

**GUID 5333 - Individual Test Interpretation**
A survey of individual tests, utilizing case studies and other appropriate techniques. Designed to enable school counselors and other service personnel to interpret and utilize the results of individual tests. Prerequisite(s): PTE 5383.

**GUID 5343 - Counseling Children/Adolescent**
This course covers the process and interventions in counseling children and adolescents. Different models of play and activity therapy will be examined. Specific developmental concerns will be examined along with how these issues can be addressed via the media of play and through therapeutic games and activities. This course includes clinical observation and discussion of the observed cases. Prerequisite(s): GUID 5153, 5163 or concurrent enrollment.

**GUID 5443 - Career Guidance**
An introduction to the theories of career development, use and interpretation of career inventory data and identification and use of community resources and materials appropriate for use in a guidance program. Prerequisite(s): GUID 5013 or concurrent enrollment.

**GUID 5652 - Developing Guidance Elementary School**
A study of the typical needs common to the age groups found in elementary schools. There will be demonstrations of small and large group activities to provide for the optimal development of all elementary students. Topics will include coping skills, problem solving, social skills training, stress management, family relationships and others.

**GUID 5900 - Practicum In Guidance**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**GUID 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**GUID 5920 - Workshop In Guidance**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**GUID 5930 - Individual Study In Guidance**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**GUID 5940 - Field Study In Guidance**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

**GUID 5950 - Internship**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student. During the internship the required Professional Portfolio will be completed and checked. CACREP guidelines require a 600 hour internship.

**GUID 5960 - Institute In Guidance**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

**GUID 5970 - Study Tour**
Credit will vary. Subject matter will vary within the department’s field of study.

**GUID 5990 - Theory and Practice As a Consultant**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**GUID 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study. HUMAN ENVIRONMENTAL SCIENCE (HES)

**Department of Human Environmental Science**

**HES 5910 - Seminar / Special Topics**
Credit may vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**HES 5940 - Field Study**
Credit will vary from 1 to 0 hours. Subject matter will vary within the department’s field of study.

**HISTORY (HIST)**

**Department of History & Geography**

**HIST 5000 - Workshop In History**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given. No more than 2 hours of workshop may be counted on a master’s degree.

**HIST 5013 - Historiography**
Structured as a seminar, historiography covers the main currents in historical research, the writing of history, and the influence of the great historians from Herodotus to the present.

**HIST 5023 - Graduate Colloquium**
Graduate Colloquium is an intensive discussion course which requires graduate students to take the lead in directing the class through presentations and guided conversations.

**HIST 5033 - Graduate Readings**
Graduate Readings focuses on a body of historical writing and prompts graduate students to analyze a number of perspectives in comparative framework.

**HIST 5043 - Graduate Research**
Graduate Research is an intensive historical research course which calls upon graduate students to formulate, research, and complete an original and distinctive work of historical analysis.
### HIST 5103 - Europe, 1919 to 1945
This course describes the history of Europe from the Treaty of Versailles through the end of World War II. In this class emphasis is placed upon the totalitarian regimes of Italy, Germany, and Russia.

### HIST 5113 - American Diplomatic History—20th Century
A history of American foreign policy from the end of the Spanish-American war to the present. Key topics of the course include: U.S. intervention in Latin America, World War I, World War II, the Cold War, Korea, and Vietnam.

### HIST 5123 - Israeli-Palestinian Conflict
A history of competing nationalisms in Palestine from the 1880s to the present. This course identifies the major participants, causes, ideologies, and attempted resolutions of the conflict.

### HIST 5153 - History of Latin America
This course examines selected problems in Latin American history from the fifteenth century to the present. Prerequisite(s): Graduate standing.

### HIST 5203 - American Diplomatic History To 1900
A history of American Foreign Policy from Independence through the Spanish-American war. Key themes of the course are American Expansion and America’s rise to power.

### HIST 5213 - Introduction To Historic Preservation
An introduction to the basic components of the field of historic preservation/conservation, including a brief history of American architecture and the preservation/conservation movement; preservation law; historic research and restoration of historic structures.

### HIST 5223 - Maya, Aztec, and Inca Civ
Maya, Aztec, and Inca Civilizations is an overview of the culture and social structure of the Maya, Aztec, and Inca peoples during Pre-Columbian times.

### HIST 5233 - History of Latin America
This course examines selected problems in Latin American history from the fifteenth century to the present. Prerequisite(s): Graduate standing.

### HIST 5253 - Black Power
Black Power in the Atlantic World addresses Black nationalist movements in a global perspective from the turn of the twentieth century. Prerequisite(s): HIST 1333 or HIST 1483 or HIST 1493 or HIST 4753 or HIST 4763.

### HIST 5263 - The American Southwest
A history of the Southwest with emphasis upon the economic, cultural, and political forces which have produced its regionalism; its homogenous character, and its diversities. Articular emphasis is given to the various ethnic groups that have produced much of the essence of the region. Prerequisite(s): Six hours of American history and permission of instructor.

### HIST 5303 - Weimar And Nazi Germany
An in-depth study of the rise of national socialism during the Weimar republic, the consolidation of power by Hitler, and Germany during WW II.

### HIST 5313 - U.S. Military History To 1917
This course provides an overview of the military’s role in American development from English colonization through the emergence of the United States as a world power. More than just a survey of battles and leaders, this course will examine the interrelationship between the armed forces and society in both peace and war, as well as the impact of intellectual and technological change.

### HIST 5323 - U.S. Military History Since 1900
American development from the aftermath of the Spanish through the present. More than just a survey of battles and leaders. This course will examine the interrelationship between the armed forces and society in both peace and war, as well as the impact of intellectual and technological change.

### HIST 5333 - Russian History To 1917
Students in Russian history to 1917 study Russian history from 882 to the Bolshevik revolution of 1917, paying particular attention to ancient Kiev, medieval Muscovy, westernization in the 18th century, and the emergence of revolutionary movements in the 19th century.

### HIST 5343 - Russian History Since 1917
Students in Russian history since 1917 study Russian history from 1917 to the present, paying particular attention to the Bolshevik revolution, the Nep era, Stalin’s “Revolution from Above,” the Gorbachev era, and post-soviet problems of transition to western political and economic models.

### HIST 5353 - Women's History: International
This course requires students to discuss, analyze, and write about continuities and changes, from the nineteenth century onwards, in the “social organization of gender differences” particularly as this framework applies to women in five possible geo-political regions: Southwest Asia, Asia, South Asia, Africa, and Latin America.

### HIST 5403 - Indians Of The Southwest
A study of the social, cultural, and intellectual history of the Indians of the American Southwest from prehistoric times to the present.

### HIST 5413 - American Indian Women
This course examines the varied historical experiences of American Indian women. It provides a chronological framework through which to examine more than four centuries of encounter, resistance, accommodation, and change. Themes include: origins and cultural development; the impact of European contact; assimilation, acculturation, adaptation; U.S. federal Indian policies; boarding school experiences; American Indian arts and crafts; the Southwest tourism industry; Native women’s resistance and activism. Prerequisite(s): HIST 1483 or 1493.

### HIST 5423 - Women in the American West
This course examines women in the American West from the early 1800s to the 1980s. Through the study of individual women’s lives and texts as well as historians’ interpretations of women’s experiences, this course traces regional identity, mobility, and cultural representations in an effort to understand how women shaped the American West. Prerequisite(s): HIST 1483 or 1493.

### HIST 5433 - American Colonial Period, 1492-1763
From the discovery of America to the Treaty of Paris in 1763.

### HIST 5443 - American Revolution & Early Nationalism, 1763-1815
This course covers American History from the end of the French and Indian War in 1763 until 1815. This course and HIST 5553 replaces HIST 5533.

### HIST 5453 - Women's History: China
Women’s History: China explores the history and culture of women in China from ancient through modern times, with emphasis on the agency of women in the face of Confucianism, Daoism, Buddhism, Communism, and state-sponsored Capitalism.

### HIST 5502 - Critical & Analytical Study Of History
A study of the discipline of history; its evolution, interpretation, and major historians.
<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HIST 5513</td>
<td>History Of Mexico</td>
<td>The history of Mexico from the Aztec civilization until modern times. Emphasis is placed on the Aztecs, the conquest by Cortez, society under Spanish independence, the Mexican Revolution, and post revolutionary Mexico.</td>
</tr>
<tr>
<td>HIST 5523</td>
<td>Museum Management</td>
<td>This course provides a comprehensive introduction to museum organization, law, ethics; contemporary museum issues; collections management procedures and policies; collections preservation.</td>
</tr>
<tr>
<td>HIST 5543</td>
<td>Black Experience In American West</td>
<td>An examination of the black experience in the Trans-Mississippi from the sixteenth century to the late 20th century. Special attention is devoted to the contributions of black people to the development of American culture as cowboys, farmers, laborers, and soldiers.</td>
</tr>
<tr>
<td>HIST 5553</td>
<td>Jacksonian America, 1815-1848</td>
<td>This course covers American History from 1815 until 1848, with emphasis on Jacksonian democracy, sectionalism, and manifest destiny. This course and Hist 5443 replaces 5533.</td>
</tr>
<tr>
<td>HIST 5563</td>
<td>Civil War And Reconstruction</td>
<td>The history of the United States from the beginning of the Civil War in 1860 to the end of Reconstruction in 1877.</td>
</tr>
<tr>
<td>HIST 5583</td>
<td>History of American Technology</td>
<td>History of American Technology focuses on the technical development and the social, political and economic incorporation of various technologies into American culture from Colonial times to present. In addition to discussion of a variety of specific technologies, the course will introduce students to the complex challenges facing historians studying the development of technology in human societies, including discussion of the historiography of the history of technology, social constructionism, technological determinism, and appropriate technologies. Prerequisite(s): HIST 1483 or HIST 1493.</td>
</tr>
<tr>
<td>HIST 5603</td>
<td>Gilded Age/Progressive Era, 1876-1919</td>
<td>A detailed study of American history from the Hayes-Tilden election to intervention into World War I.</td>
</tr>
<tr>
<td>HIST 5613</td>
<td>Americans In World War II</td>
<td>Emphasis is placed on the diplomatic background, the major battles in both the European and Pacific theaters, the home fronts, and the defeat of Germany and Japan.</td>
</tr>
<tr>
<td>HIST 5623</td>
<td>Museum Theory And Practice</td>
<td>This course focuses on the interpretation of material culture, including research and exhibit planning and evaluation; contemporary issues in museum interpretation; museum education and the public dimension of museums.</td>
</tr>
<tr>
<td>HIST 5633</td>
<td>History Of U.S., 1919-1945</td>
<td>This course is a detailed study of American history from World War I to end of World War II.</td>
</tr>
<tr>
<td>HIST 5643</td>
<td>Anth: Societies/Global Perspective</td>
<td>This course offers a global perspective for the anthropological and historical study of social and cultural organization, social change, and the development of the modern world system.</td>
</tr>
<tr>
<td>HIST 5653</td>
<td>Tudor-Stuart England</td>
<td>Tudor-Stuart England covers important political, military, cultural, and social developments in England from Henry VII to Queen Anne (1485 to 1714).</td>
</tr>
<tr>
<td>HIST 5663</td>
<td>French Revolution And Napoleon</td>
<td>The origin of the French Revolution, the turbulent revolutionary years between 1789 and 1795, the rise of Napoleon, and Europe during the Napoleonic Era.</td>
</tr>
<tr>
<td>HIST 5673</td>
<td>The Old West</td>
<td>The American frontier from the founding of the North American colonies to the Louisiana Purchase with emphasis on the social and political problems of the early westward movement.</td>
</tr>
<tr>
<td>HIST 5683</td>
<td>Victorian Great Britain</td>
<td>The scope of this course embraces the long and eventful reign of Queen Victoria (1837-1901) and includes but is not limited to such topics as institutions, politics, religion, the working-class movement, and the extensive expansion of the British Empire, and with bibliographical emphasis on the same.</td>
</tr>
<tr>
<td>HIST 5713</td>
<td>Modern Middle East</td>
<td>Peoples and geography; rise and features of Islam; classic Islamic civilizations; Arab and Turkish empires; Palestinian question; Nasserism, 20th century states.</td>
</tr>
<tr>
<td>HIST 5723</td>
<td>The Trans-Mississippi West</td>
<td>The American frontier from the Louisiana Purchase to the beginning of the twentieth century with emphasis on the economic, political and social adjustments and society in an arid region.</td>
</tr>
<tr>
<td>HIST 5743</td>
<td>Modern China And Japan</td>
<td>History of these major Asian powers since 1600 with emphasis on their cultures, the impact of the West, the industrialization of Japan and the revolutionary process in China.</td>
</tr>
<tr>
<td>HIST 5753</td>
<td>Atlantic Slavery</td>
<td>Atlantic Slavery offers a comparative overview from the start of the Atlantic slave trade through the mid-nineteenth century. Prerequisite(s): Graduate level standing. Admission to a Graduate Program.</td>
</tr>
<tr>
<td>HIST 5763</td>
<td>Black Intellectual History</td>
<td>Black Intellectual History offers a detailed approach to black social and intellectual history in the Americas from the mid-nineteenth century to the present. Prerequisite(s): Graduate level standing. Admission to a Graduate Program.</td>
</tr>
<tr>
<td>HIST 5773</td>
<td>Modern German History</td>
<td>The unification struggle arising out of the French Revolution, the development of the German state and society, the Weimar Republic, and the Nazi dictatorship.</td>
</tr>
<tr>
<td>HIST 5823</td>
<td>Social &amp; Cultural History Of U.S. To 1865</td>
<td>Social &amp; Cultural History of the U.S. to 1865 is a study of the social, cultural and intellectual life of the United States from colonial times to 1865.</td>
</tr>
<tr>
<td>HIST 5833</td>
<td>Social &amp; Cultural History Since 1865</td>
<td>Social &amp; Cultural History of the U.S. since 1865 is a study of the social and cultural history of the United States from the Civil War to the present.</td>
</tr>
<tr>
<td>HIST 5843</td>
<td>Major Interpretations Of American History</td>
<td>A study of new and old interpretations of major events in American history from the colonial period to the present. specially designed for students working toward teacher education certification in American history.</td>
</tr>
<tr>
<td>HIST 5863</td>
<td>History Of Modern Southeast Asia</td>
<td>Traditional cultures and religions; impact of western colonialism; nationalist movements and formation of nations; development of representative governments; and contemporary roles in international relations.</td>
</tr>
<tr>
<td>HIST 5873</td>
<td>History Of U.S., 1945 To Present</td>
<td>This course is an advanced study of the political, economic, social and cultural evolution of the United States from the end of World War II to the present. Special emphasis is given to the expanded role of the United States in world affairs.</td>
</tr>
</tbody>
</table>
HIST 5883 - The Reformation, 1500-1648
A detailed study of the religious upheaval of the sixteenth century, including its background and causes, an examination of the spread of Protestantism in northern Europe, the religious wars in France, the Catholic Reformation, and the Thirty Year War.

HIST 5893 - Europe, 1871-1919
Grandeur and features of late nineteenth century Europe; development of capitalism and growth of the working-class movement; origins and course of World War I; the Versailles peace settlements.

HIST 5900 - Practicum In History
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

HIST 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.

HIST 5920 - Directed Reading In History
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

HIST 5930 - Individual Study In History
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports.

HIST 5940 - Field Study In History
Credit will vary from 1 to 6 hours. Introduces a new topic or course on a temporary basis. Subject matter will vary within the department’s field of study.

HIST 5950 - Internship In History
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

HIST 5959 - Internship Museum Studies
Supervised practical experience gained in a professional field.

HIST 5960 - Institute In History
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

HIST 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

HIST 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study. HEALTH (HLTH)

HIST 5992 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

HIST 5993 - Individual Study In History
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.

HIST 5994 - Field Study In History
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

HIST 5995 - Internship In History
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

HIST 5996 - Internship Museum Studies
Supervised practical experience gained in a professional field.

HIST 5997 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

HIST 5998 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study. HEALTH (HLTH)

HIST 5999 - Practicum In History
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

HIST 5900 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.

Department of Kinesiology and Health Studies

HLTH 5203 - Organization & Administration Of Community Health
A study of the organization and administration of community health programs with emphasis on organization and presentation of materials, concept formations, relationships to public education and educational law, implementation and coordination with other agencies.

HLTH 5213 - Organizational Behavior and Leadership
This course is designed to generate competence for prospective directors, managers, and administrators in wellness settings. Technical and conceptual skills of organizational behavior and leadership will be discussed and applied to wellness program scenarios and settings in agencies, industries, and hospitals; the focus will be on improving the health and well-being of persons in these settings. Prerequisite(s): Graduate standing.

HLTH 5223 - Contemporary Issues in Health Promotion
This course involves investigation of selected contemporary problems or issues in the fields of Public Health and Kinesiology. Contemporary issues related to these fields are dynamic and change over time. Specific issues addressed in the course will be determined by the historical appropriateness and current attention placed on the topics. The course will emphasize rational development and evaluation of viewpoints on these issues.

HLTH 5313 - Program Planning & Evaluation
This course provides application of the program planning process with specific focus on health promotion. Emphasis will be placed on critical examination and discussion of models and processes used to systematically plan and evaluate public health interventions. Students will develop skills in needs assessment, program planning, and evaluation by developing a data-driven health promotion program and evaluation plan. Prerequisite(s): Graduate standing.

HLTH 5333 - Health Equity and Determinants
This course is designed to examine the impact of social, economic and environmental determinants of health on populations. Health inequities found among marginalized groups due to socioeconomic status, race/ethnicity, sexual orientation, gender, disability status, geographic location, or some combination of these factors will be highlighted. This course will explore health outcomes found among these populations and will address the health promotion policies required to attend to these issues. Prerequisite(s): Graduate standing.

HLTH 5423 - Grant Writing in Health
This course provides knowledge and application of the grant writing process with specific focus on the health and wellness fields. This will include the development of skills required for Request for Proposals, writing, budgeting and submission of grants. The course will provide examples of sources to obtain grants and the differences that exist among different granting agencies.

HLTH 5523 - Physical Activity & Public Health
This course focuses on current physical activity issues as they relate to public health. Emphasis will be placed on the recommendations for physical activity, trends in physical inactivity, the beneficial effects of physical activity on various health-related outcomes, determinants of physical activity, methods used to measure physical activity, and strategies to promote physical activity in individuals and populations. Prerequisite(s): KINS 5103, KINS 5233, and KINS 5393. Enrollment open to Wellness Management majors only.

HLTH 5900 - Practicum In Health
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

HLTH 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

HLTH 5920 - Workshop in Health
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

HLTH 5930 - Individual Study In Health
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

HLTH 5940 - Field Study In Health
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.
HUMANITIES (HUM)
Department of Humanities & Philosophy

HUM 5083 - Advanced Film Criticism
This course covers the advanced theory and practice of scholarly film criticism, as distinct from film journalism.

HUM 5103 - World Religions
World Religions examines the diverse phenomena of humanity’s various religious practices and beliefs. Cultural and intercultural parallels will be drawn, and similarities and differences distinguished. Through an exposure to the diverse means by which religions are made manifest, students will gain a broader contextual framework within which they may better understand their own convictions and those of others. Emphasis will be given to the major religious traditions of Hinduism, Buddhism, East Asian Religions, Judaism, Christianity, and Islam. Other religious traditions will be explored as time permits.

HUM 5113 - Ancient Traditions
Ancient Traditions is an interdisciplinary humanities course that examines the accomplishments of remote antiquity. The art, literature, music, and philosophies of the ancient Greeks and Romans will be given equal emphasis to provide a comprehensive understanding of the foundations of Western Civilization.

HUM 5123 - Pagan Europe
Pagan Europe examines the religious, philosophical, and cultural perspectives of European peoples before the advent of Christianity. Extinct religious practices from the Paleolithic Period to the Viking Age are evaluated to extrapolate both their peculiar characteristics and their universal aspects.

HUM 5133 - Medieval Traditions
Medieval Traditions is an interdisciplinary humanities course that examines the accomplishments of the Medieval period. The art, literature, music, and philosophies of Medieval Europe will be given equal emphasis to provide a comprehensive understanding of the foundations of Western Civilization.

HUM 5143 - Women, Witches, and Religion
Women, Witches and Religion examines the phenomenon of women when her worldview lies outside the norm for adult females of her period. It explores as well society’s responses in their historical, literary, psychological and philosophical/religious dimensions from the biblical period to the present, to specific diversities from that norm as maenads, oracles, martyrs, anchorities, witches, hysterics, and modern day adherents of Wicca.

HUM 5153 - Enlightenment Traditions
Enlightenment Traditions is an interdisciplinary humanities course that examines the accomplishments of the Enlightenment. The art, literature, music, and philosophies of Enlightenment Europe (with focus on the 18th century) will be given equal emphasis to provide a comprehensive understanding of the Enlightenment period of Western Civilization.

HUM 5163 - The Heroic Tradition
The Heroic Tradition allows students to deepen understanding of main themes, figures, and works representing the tradition of the hero in literature, art, and legend throughout the Western tradition: the Homeric epics and the artistic tradition associated with them; Roman modifications of the idea of the hero; the influence and Christianization of the Vergilian hero; the heroicization of rulers and imperial powers; and the representation of the hero in sculpture, opera, other arts.

HUM 5173 - Eastern Traditions
Eastern Traditions is a broad introduction to East Asian humanities. Students examine some of the most important literature, art, religion, and philosophy of Asia, with a focus on India, China, Japan and Southeast Asia. An interdisciplinary approach to understanding the varying civilizations of Asia will be employed so that students are able to analyze these artistic works in their cultural context.

HUM 5183 - Romantic Traditions
Romantic Traditions deepens understanding of main themes, figures, and works of the European Romantic era. Students examine the ongoing influence of the Romantic tradition in more contemporary works.

HUM 5203 - Early Modern Traditions
Early Modern Traditions is an interdisciplinary humanities course that examines the accomplishments of the early modern West. The art, literature, music, and philosophies of Europe (and, to a lesser extent, Colonial America), with focus on the Renaissance, the Baroque and Rococo periods, and the Enlightenment, will be given equal emphasis to provide a comprehensive understanding of the foundations of Western Civilization.

HUM 5213 - Modern & Contemporary Traditions
Modern & Contemporary Traditions is an interdisciplinary humanities course that examines the accomplishments of the modern West. The art, literature, music, and philosophies of Modern Europe and the United States (with focus on the 19th, 20th, and early 21st centuries) will be given equal emphasis to provide a comprehensive understanding of the foundations of Western Civilization.

HUM 5233 - Anthropology of Religion
Anthropology of Religion provides an advanced overview of the anthropology of religion. The class covers various ways of understanding religion through an anthropological lens, including the study of ritual, rites of passage, shamanism, myth, witchcraft, and primal religions in a cultural context.

HUM 5243 - Women in the Humanities
Women in the Humanities examines the phenomenon of the historical unfolding story of women’s place in the evolution of Western civilization from prehistory to the present. Bringing together aspects of political, economic, religious, intellectual, artistic, and social history, it traces the contribution of women—and barriers placed upon them—in public and private life.

HLTH 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

HLTH 5960 - Institute In Health
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

HLTH 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

HLTH 5980 - Graduate Project
Credit will vary from 1 to 3 hours. Subject matter will vary within the department’s field of study.

HLTH 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

HLTH 5991 - Graduate Project
Credit will vary. Subject matter will vary within the department’s field of study.

HLTH 5992 - Thesis
Credit will vary from 1 to 3 hours. Subject matter will vary within the department’s field of study.

HLTH 5993 - Thesis
Credit will vary. Subject matter will vary within the department’s field of study.

HLTH 5994 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study.

HLTH 5995 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study.

HLTH 5996 - Thesis
Credit will vary. Subject matter will vary within the department’s field of study.

HLTH 5997 - Thesis
Credit will vary from 1 to 3 hours. Subject matter will vary within the department’s field of study.

HLTH 5998 - Graduate Project
Credit will vary. Subject matter will vary within the department’s field of study.

HLTH 5999 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study.
**Graduate Course Descriptions**

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>HUM 5303</td>
<td>National Cinemas</td>
<td>National Cinemas focuses on the cinema of an individual country set within the context of the discussion of film on a transnational level in the 21st century. Students will employ the techniques of formal film analysis towards an understanding of individual films and the creation of a national cinema.</td>
</tr>
<tr>
<td>HUM 5433</td>
<td>The Origins of the Bible</td>
<td>The Origins of the Bible will examine the historical, philosophical, and cultural origins of the most influential of the Western tradition: The Old and New Testaments. The interdisciplinary methodologies of the humanities will be brought to bear on these texts to provide the student with a more comprehensive picture of the origins and transmutations of The Bible.</td>
</tr>
<tr>
<td>HUM 5513</td>
<td>Dante's Inferno</td>
<td>In this course, students will be immersed in the mind of the high middle ages through a close reading of Inferno, the first canticle of Dante’s epic poem The Divine Comedy. Students will follow Dante on his journey through Hell, exploring his view of humanity, history, theology, poetry, and the classical past. Student will learn to read “archetypally” by approaching the poem through Dante’s fourfold method: students will read each conto not just on the literal level of the sensory experience, but also on the typological (allegorical), tropological (moral), and finally analogical (transcendent or spiritual) levels.</td>
</tr>
<tr>
<td>HUM 5521</td>
<td>Methods for Liberal Studies</td>
<td>Methods for Liberal Studies will review the fundamental research skills that are used in the Liberal Arts: critical thinking, clarity in writing, creative problem solving, engaged reading, and effective analytical and synthetic methodologies. Students will be challenged to think about the writing process itself, and the processes that are involved in effective written and oral communication of ideas.</td>
</tr>
<tr>
<td>HUM 5603</td>
<td>Medieval Folklore</td>
<td>Medieval Folklore explores the various forms of Medieval folklore and folklife, with emphasis on the cultural experiences of the common people. topics include material culture, legends, superstitions, folk belief, rituals and festivals, childhood, foodways and other pertinent areas.</td>
</tr>
<tr>
<td>HUM 5900</td>
<td>Practicum</td>
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<td>HUM 5910</td>
<td>Seminar / Special Topics</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>HUM 5920</td>
<td>Workshop</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.</td>
</tr>
<tr>
<td>HUM 5930</td>
<td>Individual Study</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>HUM 5940</td>
<td>Field Study In Humanities</td>
<td>Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>HUM 5950</td>
<td>Internship In Humanities</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.</td>
</tr>
<tr>
<td>HUM 5960</td>
<td>Institute In Humanities</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>HUM 5970</td>
<td>Study Tour</td>
<td>Credit will vary. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>HUM 5990</td>
<td>Thesis</td>
<td>Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>HUM 5991</td>
<td>Thesis</td>
<td>Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.</td>
</tr>
<tr>
<td>INSTRUCTIONAL MEDIA (IME)</td>
<td></td>
<td><strong>Donna Nigh Department of Advanced Professional &amp; Special Services</strong></td>
</tr>
<tr>
<td>IME 5013</td>
<td>Young Adult Library Resources</td>
<td>This course examines qualitative historical and contemporary resources for young adult library collections and presents school librarian and teach techniques for creating meaningful literature experiences and methods of fostering lifelong reading habits. Evaluation, examination, and application of intellectual freedom, genres, themes, literary aspects, assessment criteria, authors and curriculum integration are studied.</td>
</tr>
<tr>
<td>IME 5023</td>
<td>Materials Selection</td>
<td>Principles of resource selection, including policy statements, selection tools, selection criteria for all formats, community factors, collection needs and acquisitions, the publishing industry, and legal issues will be examined. Emphasis is on school media centers. Students will receive extensive practice in evaluation of materials through use of a variety of recognized professional reviewing journals. This course replaces LME 5023 which replaced LME 5022.</td>
</tr>
<tr>
<td>IME 5042</td>
<td>Microcomputers In Classrooms/Media Centers</td>
<td>A study of the appropriate utilization of microcomputers in classrooms and media center. Major emphasis is placed upon selection and evaluation of instructional software, making use of available bibliographic resources.</td>
</tr>
<tr>
<td>IME 5053</td>
<td>School Library Administration</td>
<td>This course examines national, regional, and state guidelines and standards; administrative philosophies; leadership approaches; management theories; and policy development for organizing, administering, and integrating school library media center facilities, staff, resources, and budgets into the total school program.</td>
</tr>
<tr>
<td>IME 5063</td>
<td>School Library Foundations</td>
<td>This is an overview course to introduce the history, nature, development, roles, and fundamental issues in the school library media center. Students are introduced to the mission of a school library and the elements of an ideal school library media program. Foundational production skills are established and program requirements are explained. National and state standards are highlighted, as are professional organizations and the major databases and professional journals utilized in school library research.</td>
</tr>
<tr>
<td>IME 5133</td>
<td>Production in School Libraries</td>
<td>This course is designed to explore concepts of school library production procedures including software and equipment. It focuses on technology integration, preparation of instructional multimedia tools and marketing plans. This course replaces LME 5133 which replaced LME 5132.</td>
</tr>
</tbody>
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**University of Central Oklahoma Graduate Catalog 2018-2019**
IME 5233 - Collaborative Instructional Processes
The main focus of this course is the unique role of facilitating instructional team partnerships and integrating information literacy and information access into the school's curriculum. Emphasis includes teaching information literacy skills and creation of lessons/units to integrate those skills across various curriculum areas of PreK-12 schools. Students will analyze and apply national and state Information Literacy standards and collaborate with classroom teachers to plan, produce, and co-teach an integrated teaching unit.

IME 5243 - Effective Writing for School Libraries
This course emphasizes writing that is required in the school library media center field. It focuses on the creation of reports by analyzing, evaluating, and synthesizing information. Students develop skills in writing, as applied to grant proposals, communication, formal and informal, and school library media center policies. Styles of writing for audiences are examined.

IME 5313 - Collaborative Design/Multimedia Materials
This course focuses on the design of educational multimedia multimedia materials. It is an applications- and research- based experience for students who have completed introductory level instructional technology courses and want to learn more about the design and development of multimedia instructional packages. The main objective of the course is to enable students to experience working as part of a multimedia team to design an instructional package for a client.

IME 5333 - Advanced Literature Resources
This advanced literature course includes an intense study of how school librarians and teachers utilize stories including but not limited to adventure, historical fiction, mysteries, myths, science fiction, realistic fiction, allegories, parodies, utopias, dystopias, legends, fables, and folktales; drama; poetry and nonfiction. Graphic, digital, and print formats will be included. Areas of focus include reading promotion, strategies for content area reading, integration of technology and reading, multi-ethnic and diverse points-of-view and implementation of the Common Core Standards. Prerequisite(s): Graduate Standing.

IME 5423 - Library Information Retrieval Systems
This course introduces students to the practice of locating, evaluating, and using information in school libraries. Special emphasis includes use of electronic resources, databases, indices, and online reference materials.

IME 5453 - Collection Management
This course will prepare school librarians to provide their patrons with the most successful access to their school library collection, with emphasis on professional selection/reviewing tools. Experience will be gained in electronic database and index usage as well as electronic cataloging and classification systems. Students will develop skills to apply the principles of description (cataloging) and organization (classification) of print and multimedia resources and will become familiar with integrated library systems, and the consideration of various cataloging services and subscriptions relevant to the school library environment.

IME 5533 - School Library Advocacy
Students will learn to position the school library program as an essential force in preparing 21st century learners. Key concepts will include using research and evidence-based practices to develop influence and build relationships within the school and community. Students will plan and write a multi-year school library advocacy plan designed to implement the library’s mission while strengthening personal leadership skills and advancing professional growth. In addition, PR/advocacy materials and campaigns will be designed, written, and implemented.

IME 5543 - Instructional Design & Development I
This course is a study in cooperative designing of instruction. Areas covered include determining instructional objectives, planning motivational strategies, and designing multimedia learning activities.

IME 5563 - School Library Technology
This course examines the effective implementation of technology to enhance digital literacy in the school library media center. The course includes strategies for locating, evaluating, selecting, and using appropriate information; assessing reliable access to current and emerging technologies; utilizing technology for organization and management; evaluating technology for global communication, networking, and sharing; and promoting digital citizenship and responsibility.

IME 5583 - Capstone in Library Media
This course will provide culminating experiences in the Library Media Education graduate program. Candidates will complete all field-based experiences; evaluate and analyze all program knowledge and skills acquired; and provide a reflective review of all areas. In addition, students will be reviewed and prepared for certification testing and all graduate Portfolio projects will be completed, submitted, and evaluated. Prerequisite(s): This course is taken the final semester. Enrollment open to Library Media Education majors only.

IME 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

IME 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics.

IME 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

IME 5930 - Individual Study
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems of special subjects based on approved outlines or plans, conferences, oral and written reports.

IME 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

IME 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

IME 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.
Graduate Course Descriptions

IME 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

IME 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

INFORMATION SYSTEMS AND OPERATIONS MANAGEMENT (ISOM)
Department of Information Systems and Operations Management

ISOM 5143 - Computing Systems For Mgmt
This course provides students with practical knowledge, skills, and hands-on experience necessary to develop and use end user information systems. Particular emphasis is given to the appropriate use of computer applications to enhance management problem solving and communication. Prerequisite(s): Completed all prerequisites for the MBA Program.

ISOM 5243 - Database Design/Implementation
This course examines the fundamental concepts necessary for planning, designing, using, and implementing database systems. This course will stress database modeling and design, the languages and facilities provided by database management systems, and system implementation techniques. Through case studies, students will be asked to apply concepts learned to solve actual database management systems problems in business organizations. Prerequisite(s): Completed all prerequisites for the MBA Program and ISOM 5143.

ISOM 5333 - Project Management
This is a course in which the management of projects is compared and contrasted with functional management. The dimensions of time, cost, and quality are emphasized. Human resources, communication, procurement, risk, and integration are also covered. Students will plan a project using state-of-the-art software.

ISOM 5343 - Decision Support Systems
The design and development of end-user microcomputer applications that support semi-structured decision making in all levels of business organizations. Conceptual topics will include the decision making process, organizational data access and integration, building decision models, and design of graphical user interfaces. Students will use microcomputer client applications to gather data from multiple data sources and apply decision models from management science, accounting, finance, marketing or other business areas to provide support for business decisions. Students will be expected to design and demonstrate prototype decision support projects in the context of a real business problem. Prerequisite(s): Completed all prerequisites for the MBA Program and ISOM 5143.

ISOM 5533 - Management Science
This course is designed to lead students through the fields of management science/operations research and their applications in the business world, with an emphasis on modeling. The topics covered in this course include decision theory, utility theory, forecasting, linear programming modeling, the simplex method, sensitivity analysis, the transportation and assignment models, and project management. Students are introduced to the use of computer software packages which are designed for the analysis of a wide variety of business problems. Prerequisite(s): Completed all prerequisites for the MBA Program.

ISOM 5633 - Operations Management & Analysis
A study of operations management and its role in contributing to an organization’s competitive strengths along the dimensions of quality, cost, flexibility, and time. The relationship of product and service quality to productivity and costs. Conceptual issues and quantitative methods of decision making by operation management at the strategic, tactical, and operational levels. Prerequisite(s): Completed all prerequisites for the MBA Program and ISOM 5533.

ISOM 5733 - Advanced Management Science
This course is a continuation of the management science (ISOM 5533) course. The main objectives of this course are to introduce students to more advanced theory and techniques in the fields of management science/operations research and their application in the business world. Covered topics include decision theory, queuing, simulation, goal programming, integer programming, and the implementation of management science in organizations. Prerequisite(s): Completed all prerequisites for the MBA Program and ISOM 5533.

ISOM 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

ISOM 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

ISOM 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

ISOM 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

ISOM 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the Department’s field of study.

ISOM 5950 - Internship
Credit may vary from 1 to 8 hours.

ISOM 5960 - Institute
Credit will vary from 1 to 9 hours. Subject matter will vary within the Department’s field of study.

ISOM 5970 - Study Tour
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

ISOM 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

JAPANESE (JAPN)
Department of Modern Languages, Literature & Cultural Studies

JAPN 5900 - Practicum In Japanese
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

JAPN 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary from within the department’s field of study.
KINESIOLOGY (KINS)

Department of Kinesiology and Health Studies

KINS 5013 - Foundations of Wellness Management
This course will provide a broad overview of the foundations of the field of Wellness Management. Content will include history of the discipline, current practices and theoretical applications, and future directions. Prerequisite(s): Enrollment open to Wellness Management majors only.

KINS 5103 - Physiological Basis of Human Movement
Physiological Basis of Human Movement will provide a study of the physiological effects of physical exercise on the human body. Prerequisite(s): PHED 3503.

KINS 5113 - Legal/Ethical Principles Of Wellness Management
This course provides students with the opportunity to gain insight and understanding about the law and its implications on professionals in the fields of health, wellness, sport, education, leisure, and fitness. Prerequisite(s): Graduate standing.

KINS 5203 - Physical Activity and Aging
This course is a study of the physiological, psychological, and social aspects of physical activity for older adults. Topics covered include an overview of aging, benefits of physical activity throughout the lifespan, and fitness assessment and programming options for older adults. Prerequisite(s): KINS 5103, and KINS 5303 is recommended. Enrollment open to Wellness Management majors only.

KINS 5223 - Technology & Media For Wellness Managers
This course provides wellness professionals with the skills to initiate, maintain, and expand technology and media into daily business. It also emphasizes obtaining resources, information, skills, and strategies through practical application. Prerequisite(s): Graduate standing.

KINS 5233 - Assessment in Wellness Mgmt
This course is designed to provide instruction in three common statistical tasks: 1) collecting data, 2) summarizing and exploring data, and 3) drawing conclusions and making decisions based on data.

KINS 5303 - Exercise Testing & Prescription
This course is designed to enhance the student's knowledge and application of exercise testing and exercise prescription for apparently healthy populations. Prerequisite(s): Graduate standing and KINS 4513, KINS 4523, and KINS 5103.

KINS 5313 - Athletic Training Principles
This course provides advanced theories, techniques, and applications of skills relative to athletic injury administration, prevention and care. Major content areas are risk management and administration. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Prerequisite(s): Enrollment open to Athletic Training majors only.

KINS 5333 - Exercise Apps for Special Populations
This course is designed to increase the student's working knowledge about special populations in the areas of physical assessment and exercise prescription. Prerequisite(s): Graduate standing and KINS 5103.

KINS 5343 - Assessment Athletic Injuries
This course provides a comprehensive study of assessment and evaluation techniques for lower and upper extremities. Major content area is Diagnosis. Instruction will include applied anatomy, palpation methods, manual muscle testing, neurological assessment and stress / special tests. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Prerequisite(s): Enrollment is open to Athletic Training majors only. Concurrent enrollment in KINS 5413.

KINS 5393 - Research in Wellness Management
This course is an overview of concepts and procedures necessary for designing, conducting, and analyzing research in Kinesiology and Health Studies from multiple research paradigms. The course will focus on the steps involved in the administration of a research project, including literature review, design, data collection, and analysis. Prerequisite(s): Graduate standing and KINS 5233.

KINS 5403 - Biomechanical Basis of Human Movement
The principles of classical mechanics are applied to the study of human motion to provide students with an understanding of the internal and external forces acting on the body during human movement. The role of muscle in generating force and controlling movement is emphasized. Prerequisite(s): PHED 3333 and HLTH 3223.

KINS 5413 - Athletic Training Clinical I
This clinical course will provide both lab instruction and the clinical field experience related to prevention, assessment and care related to lower extremity sports. Major content areas include risk management and acute care. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): Enrollment open to Athletic Training majors only. Concurrent enrollment in KINS 5343.

KINS 5423 - Strength Development & Training Methods
This course is designed to address strength development and training in the context of exercise science, sports medicine, preventive medicine, health psychology and behavioral medicine, epidemiology, nutrition, and rehabilitative medicine. The focus will be the blending of theory driven research with the practical applications of exercise prescription to specific training paradigms and that relationship to exercise adherence, maintenance, and relapse. Prerequisite(s): PHED 3503 and graduate standing.
Graduate Course Descriptions

KINS 5433 - Therapeutic Modalities
This course provides a comprehensive study of therapeutic treatment techniques. Major content area is Therapeutic Modalities. Instruction will include the application and theory for superficial and deep heat modalities, electrical therapies and manual techniques. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): Enrollment open to Athletic Training majors only. Concurrent enrollment in KINS 5443.

KINS 5443 - Athletic Training Clinical II
This clinical course will provide both lab instruction and clinical field experience related to prevention, assessment and care related to upper extremity sports. Major content areas include diagnosis and medical conditions. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): Enrollment is open to Athletic Training majors only. Concurrent enrollment in KINS 5513.

KINS 5513 - Medical Aspects Of Athletic Training
This course provides a comprehensive study of assessment and evaluation techniques for the head, neck, axial spine, thorax and abdomen related to both medical conditions and injury. Major content areas are pathology, diagnosis and medical condition. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): Enrollment is open to Athletic Training majors only. Concurrent enrollment in KINS 5443.

KINS 5523 - Rehabilitation Techniques For Athletic Injury
This course will provide a comprehensive look at conditioning exercise, post-injury and post-operative rehabilitation techniques. Major content areas are conditioning and rehabilitation exercises. Instruction will include applied anatomy, conditioning assessment, exercise equipment and rehabilitation protocols for the major body regions. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): KINS 5313. Enrollment is open to Athletic Training majors only. Concurrent enrollment in KINS 5613.

KINS 5613 - Clinical Education For Rehabilitation Techniques
This clinical course will provide both lab instruction and clinical field experience related to treatment and rehabilitation of athletic injuries. Major content areas are conditioning, therapeutic modalities, rehabilitation, psychosocial and nutrition. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): Enrollment open to Athletic Training majors only. Concurrent enrollment in KINS 5523.

KINS 5623 - Pathophysiology For Athletic Trainers
This course is a study of acute and chronic illnesses and musculoskeletal disorders including the pharmacologic response during physical activity. Prerequisite(s): Enrollment is open to Athletic Training majors only.

KINS 5713 - Athletic Training Administration
This course will examine the organization and administration of an athletic training program. Major content areas are health care administration and professional development and responsibilities. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete the course. Prerequisite(s): Enrollment open to Athletic Training majors only. Concurrent enrollment in KINS 5723.

KINS 5723 - Psychosocial Aspects Of Athletic Training
This lecture course will focus on sociological and psychological aspects related to being a health care provider. Major content areas are pharmacology, psychosocial and nutrition. Instruction will include common athletic medication usage, drug testing, nutrition and psychosocial differences based on cultural, ethnic, and gender of the physically active. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): Enrollment open to Athletic Training majors only. Concurrent enrollment in KINS 5713.

KINS 5733 - Athletic Training Clinical III
The course will provide both lab instruction and clinical field experience related to equipment intensive sports. Major content areas are risk management, diagnosis, and acute care. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): KINS 5433 and 5613. Enrollment open to athletic training majors only. Concurrent enrollment in KINS 5523 and 5613 is required.

KINS 5743 - Athletic Training Clinical IV
This clinical course will provide both lab instruction and clinical field experience related to general medicine and skill integration. Major content areas are conditioning, diagnosis, medical conditions, therapeutic modalities, rehabilitation, pharmacology, nutrition and professional development. Clinical skills will be taught and evaluated requiring the student to demonstrate a level of competency to complete this course. Travel is required and is the responsibility of the student. Prerequisite(s): KINS 5733. Enrollment open to athletic training majors only.

KINS 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

KINS 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study of selected problems or special topics. Prerequisite(s): An undergraduate minor in the subject matter area and permission of the graduate advisor.

KINS 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

KINS 5930 - Individual Study
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports. Prerequisite(s): An undergraduate major in the subject matter area and permission of graduate advisor.

KINS 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

KINS 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

KINS 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

KINS 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.
### KINS 5980 - Graduate Project
This course requires students to demonstrate their cumulative knowledge in exercise science to complete and present a capstone project. Subject matter will vary within the department's field of study.

### KINS 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

### LATIN (LATN)
#### Department of Modern Languages, Literature & Cultural Studies

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>LATN 5900</td>
<td>Practicum In Latin</td>
<td>1-4</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>LATN 5910</td>
<td>Seminar / Special Topics</td>
<td>1-4</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>LATN 5920</td>
<td>Workshop In Latin</td>
<td>1-4</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>LATN 5930</td>
<td>Individual Study In Latin</td>
<td>1-4</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>LATN 5940</td>
<td>Field Study In Latin</td>
<td>1-9</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>LATN 5950</td>
<td>Internship In Latin</td>
<td>1-8</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>LATN 5960</td>
<td>Institute In Latin</td>
<td>1-8</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>LATN 5970</td>
<td>Study Tour</td>
<td>Varies</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>LATN 5990</td>
<td>Thesis</td>
<td>1-6</td>
<td>Subject matter will vary within the department's field of study.</td>
</tr>
</tbody>
</table>

### MATHEMATICS (MATH)
#### Department of Mathematics and Statistics

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MATH 5113</td>
<td>Operations Research 1</td>
<td></td>
<td>This course covers the formulation of various deterministic problems as mathematical optimization models, the development of the simplex algorithm, and the theoretical implications of linear program duality, including sensitivity analysis. Optimization models studied include linear programs, integer programs, and various network models. Prerequisite(s): MATH 3143 with a minimum grade of &quot;C&quot;.</td>
</tr>
<tr>
<td>MATH 5123</td>
<td>Operations Research 2</td>
<td></td>
<td>This course covers the solution methods for various mathematical optimization models including integer programs, network problems, deterministic inventory models, and queuing models. Special emphasis is placed on the use of heuristics and metaheuristics to address intractable problems. Prerequisite(s): MATH 4113 with a minimum grade of &quot;C&quot; or MATH 5113 with a minimum grade of &quot;C&quot;.</td>
</tr>
<tr>
<td>MATH 5134</td>
<td>Calculus For Secondary Teachers</td>
<td></td>
<td>This course is a survey of calculus in view of modern concepts and is intended for students preparing to teach advanced secondary mathematics.</td>
</tr>
<tr>
<td>MATH 5143</td>
<td>Advanced Calculus For Applications 1</td>
<td></td>
<td>This is the first course in a two-course sequence of differential and integral calculus. Its topics include sequences and limits of sequences, limits of single variable functions, and differentiation and integration of single variable functions. Students will be required to apply the ideas learned to individual investigations. Prerequisite(s): MATH 3103.</td>
</tr>
<tr>
<td>MATH 5153</td>
<td>Advanced Calculus For Applications 2</td>
<td></td>
<td>This is the second course in the two-course sequence of differential and integral calculus. Its topics include infinite series of numbers, sequences and series of functions, Fourier series, vector calculus, and limits, differentiation, and multiple integration of functions of several variables. Prerequisite(s): MATH 5143.</td>
</tr>
<tr>
<td>MATH 5263</td>
<td>Numerical Linear Algebra</td>
<td></td>
<td>Students will study direct and iterative methods of solving linear systems of equations, methods of solving nonlinear systems of equations, eigenvalue problems, special matrices, connections to differential equations, and additional special topics as appropriate. Prerequisite(s): MATH 3143 with a minimum grade of &quot;C&quot;.</td>
</tr>
<tr>
<td>MATH 5373</td>
<td>Applied Numerical Analysis</td>
<td></td>
<td>This course will formulate numerical methods for approximation of solutions to a variety of calculus-based problems including root-finding, integration and differentiation, approximation, and other special topics as appropriate. Substantial emphasis will be given to analysis of the underlying mathematical theory and to application of methods by computer programming. Prerequisite(s): MATH 3103 with a minimum grade of &quot;C&quot;.</td>
</tr>
</tbody>
</table>
### MATH 5413 - Differential Equations
Topics in this course include partial differential equations, elliptic, hyperbolic, and parabolic equations, separation of variables, special functions, eigen function expressions, and the existence and uniqueness of solutions. Prerequisite(s): MATH 5363.

### MATH 5443 - Introduction To Complex Variables
This course is an introduction to the theory of functions of a complex variable. Topics include analytic functions, complex integrals, Taylor and Laurent series, and conformal mappings. Prerequisite(s): MATH 2343.

### MATH 5453 - Mathematical Modeling
This course is a case study approach to mathematical modeling. Problems from a variety of problem areas and demonstrating various mathematical methodology will be discussed. Prerequisite(s): Permission of the instructor.

### MATH 5563 - Introduction To Graph Theory
Topics in this course include the structure of graphs, trees, connectivity, planarity, colorability of graphs, digraphs, matrices associated with a graph, and the automorphism group of a graph. Graph theoretic modeling and applications to engineering, computer science, and data structures will be emphasized. Prerequisite(s): MATH 3183 or 3143.

### MATH 5843 - Teaching of Secondary Mathematics
This course covers the development of secondary mathematics in the United States, the work of professionally-recognized mathematics education committees, the general aspects of teaching mathematics, and detailed study for teaching various high school mathematics courses. Prerequisite(s): Permission of the instructor.

### MATH 5853 - Introduction To Graduate Research
Students in this course will learn how to conduct scholarly research, read professional journals, structure a comprehensive paper, and communicate mathematical concepts. Each student will submit a comprehensive report in a format appropriate to the nature of the investigated problem. Prerequisite(s): Enrollment open to math majors only.

### MATH 5900 - Practicum In Mathematics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

### MATH 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study on selected topics. Prerequisite(s): Undergraduate minor in the subject matter area and permission of graduate advisor.

### MATH 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

### MATH 5930 - Individual Study
Credit will vary from 1 to 4 hours. Directed intensive study on definite or special subject, based on approved outlines or plans; conference, oral and written reports. Prerequisite(s): Permission of instructor.

### MATH 5940 - Field Study In Mathematics
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

### MATH 5950 - Internship In Mathematics
Credit would vary from 1 to 8 hours. Supervised practical experience gained in a professional field by an advanced or graduate student.

### MATH 5960 - Institute In Mathematics
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

### MATH 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

### MATH 5980 - Graduate Project
A contemporary problem provided by business and industry and selected with consideration of the interests and abilities of the individual student. Prerequisite(s): Written permission of instructor and MATH 5853. Enrollment open to Math majors only.

### MATH 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study. Prerequisite(s): Permission of instructor and MATH 5853. Enrollment open to math majors only.

### MASTER OF BUSINESS ADMINISTRATION (MBA) Department of Management

#### MBA 5010 - Base Camp
This course provides socialization and on-boarding to the MBA program. Students also participate in team building exercises, developing career goals, and leadership assessments. Base Camp is mandatory for all incoming students in the MBA. Prerequisite(s): Enrollment open to MBA majors only.

#### MBA 5033 - Creative Problem Solving
Creative Problem Solving focuses first on creative problem finding and then creative problem solving, helping students develop the skills to solve problems that are characterized by novelty, ambiguity, and uncertainty. Students also gain a deeper understanding of the role that strategic communication plays in the problem finding/solving process.

#### MBA 5042 - Managerial Economics
Managerial Economics is a course that is intended to help students apply basic economic principles to decision making processes of the firm. The course will provide a foundation of economic tools relevant to the modern business environment and require extensive application to enhance decision making skills relevant to managers. Students will develop familiarity with the concepts and methods used in economic analysis for making decisions regarding price and output to maximize firm profitability, evaluating the market structure of the industry and responding to the competitive composition of the market, choosing appropriate courses of action in certain and ambiguous environments, and aligning individual incentives with firm incentives. Prerequisite(s): Enrollment open to MBA majors only.

#### MBA 5142 - Managerial Finance
Managerial Finance introduces students to key functions of financial management of a corporation. Emphasis is on theory and practice that financial managers need to master to effectively cope with routine problems and to respond to changes. Rather than teaching time-honored rules of thumb, this course is designed to teach how financial managers use financial theory to solve practical problems. This course teaches what financial managers should do and why to increase company value. Topics will be covered through lectures, quantitative problems, discussions, hands-on-mini-case assignments, and a research project. Topics covered include the financial environment, financial planning, risk-return trade off, asset pricing models, asset valuation, capital budgeting, cost of capital, capital structure, dividend policy, and working capital management. Prerequisite(s): Enrollment open to MBA majors only.
### MBA 5172 - Managerial Accounting
Managerial Accounting is designed to investigate the role accounting and accounting systems play in planning, monitoring, and evaluating business operations. All organizations must plan for future operations, monitor their current operations, and evaluate their past performance. This course will aid in understanding how to use accounting information in the planning, monitoring, and evaluation of business operations and understanding the models and information requirements of common types of managerial decisions. Managerial Accounting will also provide instruction in how to present the results of quantitative manageral analyses in an effective manner. Finally, the course will investigate the ethical issues facing managerial accountants in their accounting and reporting practices.

### MBA 5182 - Survey of Energy
Survey of Energy explores burgeoning issues, technological advancements, and the dynamic regulatory environment of major energy systems; e.g., foreign and domestic oil and gas production, transportation, and consumption; electricity markets and wholesale generation, distribution, and renewable energy generation. Further, this course serves as an introduction to financial transactions, lease or power purchase agreements, and the energy derivatives market (futures, swaps, etc.). Prerequisite(s): Enrollment open to MBA majors only.

### MBA 5243 - Leading People in Organizations
Leading People in Organizations helps future managers explain and predict human behavior in organizations at individual, group, and organizational levels. In the new, knowledge economy, human capital is a source of competitive advantage for many organizations. As such, this course focuses on such topics as building a strong organizational culture, managing diversity, engaging in techniques to motivate personnel, decision making, and teams. In addition, the course provides students a working knowledge of investigating employee recruitment and selection, training and development, performance evaluation, and compensation and benefits - systems essential to the foundation of an agile and forward thinking organization.

### MBA 5252 - Healthcare Finance
This course covers the essentials of understanding and managing the financial aspects of healthcare organizations, including but not limited to accounting, cost issues, budget preparation and management. Financial management techniques as they apply to healthcare organizations are discussed. Prerequisite(s): Enrollment open to MBA majors only.

### MBA 5272 - Managerial Statistics
Managerial Statistics covers basic probabilities, simple regression, multiple regression, and ANOVA, as well as additional data analytic techniques, both linear and non-linear in nature. The student’s ability to understand and apply the use of quantitative data during decision-making processes within the organization and management in general is an essential competency built in this course. Prerequisite(s): Enrollment open to MBA majors only.

### MBA 5282 - Energy Mrk Reg, Antitrust, Law
Energy Market Regulation, Antitrust, and Law is an in-depth exploration of regulatory and antitrust standards in the energy industry as they pertain to market power, market manipulation, and industry structure, conduct and performance. This course will explore the history and purpose of regulation in energy systems, and how energy regulation differs by source. Further, this course will explore how government intervention in market transactions affects aspects of daily lives and alters the course of firm behavior. Prerequisite(s): Enrollment is open to MBA majors only.

### MBA 5331 - Building Effective Teams
Building Effective Teams examines the processes involved in selecting, building, and maintaining strong teams. Issues under examination include but are not limited to team formation and selection, managing problem solving processes in teams, and information sharing in teams. This course has a particular focus on the role of teams in the knowledge economy.

### MBA 5342 - Decision Making in Marketing
Decision Making in Marketing is designed to develop skills for effective marketing decision making, focusing on strategic design, implementation, and evaluation, in a wide variety of organizational and competitive situations. The course seeks to develop each student’s understanding of how an organization can benefit by offering value to its customers and other stakeholders. Emphasis is given to the role of the marketing function within an organization and to the utilization of marketing activities in achieving a sustainable competitive advantage. Prerequisite(s): Enrollment open to MBA majors only.

### MBA 5352 - Managerial & Operational Analytics
Managerial and Operational Analytics is designed to expose the student to the issues, concepts, and techniques to achieve world-class operations and supply chain management through judicious use of analytic techniques. Special emphasis is placed on process analysis and improvement and designing and controlling operations to achieve strategic advantage. Topics include lean/six sigma methodologies, queuing methods, optimization, the supply chain model and the use of data to develop insights and predictive capabilities using machine learning, data mining and forecasting techniques.

### MBA 5382 - Energy Market Analysis
Energy Market Analysis develops the quantitative skills that are essential for managers and professionals in the energy industry. In this course we study forecasting methods for energy production, demand, and dispatch. We also discuss financial markets and energy derivatives to develop a thorough understanding of hedging strategies that firms employ. Prerequisite(s): Enrollment open to MBA majors only.

### MBA 5422 - International Experience
The International Experience course is designed to expose the student to business operations that operate in an international setting. As our students have varied responsibilities and opportunities, this course is designed to offer a variety of options to satisfy each student. During the summer between Year 1 and Year 2, each student selects either an internship, department rotation at current employer, immersion experience with a Global partner, or other approved integrative experience equal to 40 hours of work experience. This can be completed anywhere from one week to four weeks — overseen by leading faculty. Prerequisite(s): Enrollment open to MBA majors only.

### MBA 5432 - Leadership, Power, & Politics
Leadership, Power, and Politics is designed to familiarize students with the various roles of leaders within organizations. Topics will include strategies and theories guiding leader behaviors, understanding followers, power and influence, and navigating politics in organizations. Prerequisite(s): Enrollment open to MBA majors only.

### MBA 5441 - Leadership Development I
This course will combine theory and practice as students learn effective leadership. In addition, they will discover and develop their own leadership skills through an assessment of strengths and weaknesses and through practice and feedback. Prerequisite(s): Enrollment open to MBA majors only.
MBA 5422 - Financial Marketing & Investment Management
Financial Market and Investment Management provides a comprehensive survey and analysis of investment and portfolio management based on comprehensive understanding of the significance of money, credit, debt, and the financial systems. The course covers the fundamental knowledge and the various financial tools and strategies for recognizing investment opportunities, making sound financial decisions, and knowing when to act on them. These include fundamental analysis, technical analysis, portfolio theory applications and the use of risk management tools such as futures and options contracts. Outside lecture materials are added to provide a deeper understanding of relevant topics, most particularly for those topics which are generally complex to use effectively such as financial derivatives. A significant portion of the lecture is supplemented with topics taken from other sources. Topics will be covered in an international as well as domestic (U.S.) context with emphasis on recent changes wrought by the explosive growth of the Internet as a source of financial information. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5472 - Healthcare Innovations
As technology evolves exponentially, so do the opportunities for integrating technology into both the short and long-term plans for patient care. This course covers methodologies for examining unique problems in providing health care, and how/if innovation can solve such problems. Current and potential innovative pathways for improving patient care will be explored. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5482 - Oil and Gas Agreements
Oil and Gas Agreements will give students entry level knowledge of agreements commonly used in the domestic oil and gas industry. Students will understand the concept of the mineral estate and the way it can be divided, oil and gas leases their component parts and their function, the interests that can be created in an oil and gas project, the business entities that can be used to house oil and gas ventures. In addition, students will understand division orders, pooling, unitization, an introduction to offshore leases and offshore contracts, as well as the differences between state and federal offshore operation, the special case of Alaska as well as how an oil and gas deal can be promoted without creating an unregistered security. This course is designed to give students an ability to compete effectively for entry level positions in the domestic midcontinent oil and gas industry. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5512 - Strategic HRM
Strategic Human Resource Management will give students a working knowledge of investigating employee recruitment and selection, training and development, performance evaluation, and compensation and benefits. Students will gain abilities to develop, evaluate, and control human resource systems while improving interactions with internal and external stakeholders. This helps establish competitive advantage in the changing global marketplace. By focusing on the three levels of human resource management, students will develop acute understanding of the altering environment of issues facing their most important managerial advantage: human resources. Further topics to be covered include human resource coordination support proficiencies, such as concept application, job analysis, and design, ethics, and economic support. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5522 - Financial Marketing & Investment Management
Financial Market and Investment Management provides a comprehensive survey and analysis of investment and portfolio management based on comprehensive understanding of the significance of money, credit, debt, and the financial systems. The course covers the fundamental knowledge and the various financial tools and strategies for recognizing investment opportunities, making sound financial decisions, and knowing when to act on them. These include fundamental analysis, technical analysis, portfolio theory applications and the use of risk management tools such as futures and options contracts. Outside lecture materials are added to provide a deeper understanding of relevant topics, most particularly for those topics which are generally complex to use effectively such as financial derivatives. A significant portion of the lecture is supplemented with topics taken from other sources. Topics will be covered in an international as well as domestic (U.S.) context with emphasis on recent changes wrought by the explosive growth of the Internet as a source of financial information. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5542 - Project and Program Management
This course covers the essentials of managing projects in a dynamic work environment. Content includes functions of planning, controlling, and organizing resources for the completion of complex projects. Includes navigating social and political environments to ensure successful project completion.

MBA 5561 - Integrative Project I
Integrative Project I focuses on the integration of business content and emphasizes the application of concepts to real world business dilemmas. Primarily taught through consulting with a metropolitan business, this course will utilize and build upon the concepts studied in prior courses, and allow the students an opportunity to see how these concepts fit together and how theory becomes reality. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5572 - Business Ethics & Sustainability
Business Ethics and Sustainability educates students in the complexity of business ethics and ethical decision making in the workplace, as well as discusses and defines the notion of sustainability in the business environment. This course will also integrate business law as it applies to corporate decisions. Exposure to business ethics and decision making frameworks through cases and self-reflection focus on navigating real, complex, career decisions.

MBA 5602 - Conflict Management & Negotiation
Conflict Management and Negotiation focuses on issues and trends in conflict and management negotiation. Through theory and application, students will learn conceptual frameworks and negotiating strategies to resolve conflict in different business contexts. Upon completion of this course, student should have a greater understanding of how conflict is constructed, conceptualized, and how to strategically resolve conflict through negotiation. Prerequisite(s): Enrollment open to MBA majors only.
MBA 5621 - Integrative Project II
Integrative Project II is a continuation of MBA 5561 Integrative Project I and focuses on the integration of business content and emphasizes the application of concepts to real world business dilemmas. Taught through consulting with the same metropolitan business, this course will utilize and build upon the concepts studied in prior courses, and allow the students an opportunity to see how these concepts fit together and how theory becomes reality. Prerequisite(s): MBA 5561. Enrollment open to MBA majors only.

MBA 5642 - Organizational Change & Innovation
Organizational Change and Innovation examines the processes related to both organizational change and organizational innovation in the knowledge based economy of the early 21st century. More specifically, this course will spend significant time discussing both leader and manager tactics for invoking and instituting change at the individual, group, and organizational levels - with more time spent discussing macro level change implications. In addition, multi-level issues related to innovation - and the creative activities preceding it - will be discussed focusing again on the role of both leadership and management in stimulating such activity from both micro and macro perspectives.

MBA 5672 - Energy Economics
This course provides a detailed overview of energy economics as it relates to major energy markets and sectors (e.g. the oil and gas sector or the electricity sector). We will discuss market forces and government regulation, quantitative energy demand and supply forecasting; market structure, conduct and performance; cost-benefit project viability and finance measures. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5712 - Strategic Management
Strategic Management is designed to develop students to be upper-level managers for the increasingly competitive business world. The emphasis of this course will be on the strategic evaluation, judgements, and engagements that organizations develop to create sustainable competitive advantages.

MBA 5722 - Adv Managerial Communication
Advanced Managerial Communication guides the student through the process of honing her/his communication skills and knowledge to assume a leadership role in the organization. Using a skills-based approach, students study various communication challenges in the modern organization, share strategies for dealing with those challenges, and develop specific skills that help establish and maintain personal credibility and credibility for the organization. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5731 - Integrative Project III
Integrative Project III is a continuation of MBA5561 Integrative Project I and MBA 5621 Integrative Project II and focuses on the integration of business content and emphasizes the application of concepts to real world business dilemmas. Taught through consulting with the same metropolitan business, this course will utilize and build upon the concepts studied in prior courses, and allow the students an opportunity to see how these concepts fit together and how theory applies to reality. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5852 - Integrative Project
The Integrative Project focuses on the integration of business content and emphasizes the application of concepts to real world business dilemmas. Primarily taught through consulting with a metropolitan business, this course will utilize and build upon the concepts studied in prior courses, and allow the students an opportunity to see how these concepts fit together and how theory becomes reality. Prerequisite(s): Enrollment open to MBA majors only.

MBA 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

MBA 5910 - Seminar/Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

MBA 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

MBA 5930 - Individual Study
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports.

MBA 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

MBA 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

MBA 5970 - Study Tour
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

MBA 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

MASS COMMUNICATION (MCOM)

MCOM 5000 - Workshop in Mass Communication
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given. No more than 2 hours of workshop may be counted on a master’s degree.

MCOM 5413 - Techniques Of Forensic Photography
This course explores the techniques used in obtaining and producing photographs used in investigation, evidence gathering and general photography used by law enforcement agencies. This course is designed for students planning to pursue a career in the forensic sciences. Prerequisite(s): MCOM 1123.

MCOM 5623 - Gays & Lesbians in Film/Media
This course examines representations of gays and lesbians from the development of an alternative gay and lesbian cinema movement to the mainstreaming of gay and lesbian people in television and in film.

MCOM 5633 - Race, Violence, Youth, & Media
Race, Violence, Youth and the Media will critically examine various mass media representations and coding of contemporary youth subcultural formations in the U.S.A.
**MGMT 5000 - Practicum In Mass Communication**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**MGMT 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**MGMT 5930 - Independent Study**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**MGMT 5950 - Internship In Mass Communication**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

**MGMT 5960 - Institute In Mass Communication**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

**MGMT 5970 - Study Tour In Mass Communication**
Credit will vary. Subject matter will vary within the department's field of study.

**MGMT 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

**MANAGEMENT (MGMT)**
Department of Management

**MGMT 5023 - Business Policy**
Business policy is a course designed to assess the student's cognitive skills in solving business problems. e/she is required to make broad-based business decisions through in-depth case analysis. These cases are actual studies of American firms. The student must possess some knowledge of accounting, marketing, finance, and report writing in order to be competitive in this course. Prerequisite(s): Completed all prerequisites for MBA Program and ACCT 5103 and FIN 5333 and MRKT 5123 and ECON 5103 or ECON 5503.

**MGMT 5043 - Organizational Theory & Design**
This course is designed to impart to the student an integrated and pragmatic approach in the application of organizational theory. An in-depth examination is undertaken to ascertain the relationship between technology, the external and internal environments and their impact upon the development of modern theory. The student will be exposed to the various classics in the field as they formulate their theories and consequences of their use. A study will be made in the evolution of those theories compared to the writings of today's management scholars. Prerequisite(s): Completed all prerequisites for the MBA Program.

**MGMT 5203 - International Management**
This course aims at developing student's knowledge and awareness of international management operations, practices, and environment. Students will learn the process of planning, organizing, directing, and controlling international business activities and operations. The course objectives are met through lectures, classroom discussions, library assignments, and research work. Prerequisite(s): Completed all prerequisites for the MBA Program.

**MGMT 5543 - Integrated Functions Of The Firm**
A total firm concept which involves many different kinds of business problems which are conceptual in nature. Problems studied are based on the student's career objectives, business background, and academic preparation. Prerequisite(s): Completed all prerequisites for the MBA Program and MGMT 5023.

**MGMT 5563 - Corporate Social Responsibility & Business**
A course designed to enable the student to develop a philosophy of the social responsibility of business, and a philosophy of personal responsibility as a leader within the field of business. Moral and ethical responsibilities of business and its administrators are considered. Prerequisite(s): Completed all prerequisites for the MBA Program.

**MGMT 5900 - Practicum In Management**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**MGMT 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**MGMT 5920 - Workshop in Management**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**MGMT 5930 - Individual Study**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**MGMT 5940 - Field Study In Management**
Credit will vary from 1 to 9 hours. Subject matter will vary within the Department's field of study.

**MGMT 5950 - Internship In Management**
Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**MGMT 5960 - Institute In Management**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

**MGMT 5970 - Study Tour**
Credit will vary. Subject matter will vary within the department's field of study.

**MGMT 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

**MUSIC PERFORMANCE (MPER)**
School of Music

**MPER 5010 - Applied Music**
This course is study at a professional level in the student's major applied area. As professional level study, it assumes a mastery of undergraduate technical skills, a thorough knowledge of the major solo and collaborative literature in the specific field, and the ability to execute independent analysis in the area of interpretation and pedagogical method toward the creation of effective performances and teaching strategies. Additional requirements such as studio or repertoire class, etc. may be required at the discretion of the individual instructor. Credit will vary from 1-3 hours.

**MPER 5021 - Secondary Applied Music**
This course provides applied study for graduate students who wish to develop advanced skill levels in an area other than their own major applied in order to enhance their professional qualifications in such fields as pedagogy for music educators and/or instrumental doubling typical of the requirements of professional pit orchestra musicians. Secondary Applied Music is available for only 1 credit hour in any specific applied, though multiple secondary applied areas may be taken simultaneously.
MPER 5041 - Applied Jazz Improvisation
This course is a study of jazz improvisation at a professional level including a thorough knowledge and mastery of undergraduate technical skills of major, minor, diminished, and melodic/harmonic minor diatonic harmony, scale modes, technique, physiological concerns, song form, blues and musical interpretation of jazz styles. Instructional materials will include jazz compositions which involve materials such as major, minor, harmonic and melodic minor melodic content, complex rhythmic applications and time signatures. The exact course content will vary according to the specific applied area and the instructor's assessment of the student's developmental stage and needs. Additional requirements such as jazz ensemble or jazz combo class may be required at the discretion of the individual instructor.

MPER 5052 - Applied Historical Instruments
This course is the applied study of a specific historical instrument and the technique and performance practice appropriate to that instrument, its period and literature. This study requires an advanced level of both general musical knowledge and specific skill in performance on the student's major applied instrument. Prerequisite(s): Permission of the instructor.

MPER 5111 - Concert Chorale
The Concert Chorale provides an opportunity for musically talented UCO students to develop their vocal talents rehearsing and performing a wide variety of choral music. The group will perform a minimum of two on-campus performances during the semester. Prerequisite(s): Permission of instructor.

MPER 5141 - Cantilena
Cantilena is a vocal ensemble for the Soprano/Alto singer. It is open to all students, regardless of major, by audition and permission of instructor. Prerequisite(s): Permission of instructor.

MPER 5151 - UCO Chamber Orchestra
The UCO Chamber Orchestra offers advanced students the opportunity to perform orchestral works of the 17th and 18th Centuries in a chamber setting working without a conductor. Prerequisite(s): A successful audition, and permission of the instructor.

MPER 5161 - UCO Symphony Orchestra
The UCO Symphony offers a well-rounded orchestral experience through performing four to eight concerts each school year, embodying compositions in a variety of styles from various musical periods. Prerequisite(s): A successful audition.

MPER 5181 - Chamber Singers
The Chamber Singers perform advanced choral literature which is intended for smaller ensembles. This includes, but is not limited to, Renaissance madrigals, motets, 20th-century works, contemporary arrangements and vocal jazz. This ensemble performs for choral concerts and local events. Prerequisite(s): Permission of instructor required.

MPER 5281 - Band
A band is a large ensemble performing group. The university band program is open to all university students who have performance skills on band instruments. During the fall semester the marching band performs at football games, and spring semester is devoted to wind ensemble and concert band performance. Prerequisite(s): Written permission of instructor.

MPER 5291 - Wind Symphony
The wind symphony is the premier performing ensemble in the Winds & Percussion Division of the UCO School of Music. The ensemble prepares and performs music for concerts on and off campus, tour, and other activities throughout the fall and spring semesters.

MPER 5321 - Collaborative Piano Practicum
This course is a laboratory course designed to give graduate collaborative piano students practical experience in accompanying vocal and instrumental repertoire in studio lessons, ensembles, and in student recitals. Students will continue sight-reading work and the perusal of the vocal and instrumental collaborative repertoire selected from intermediate level lieder, art song, orchestral reductions, and instrumental solos. Weekly performances with student instrumentalists or singers will be critiqued and coached by colleagues and the instructor.

MPER 5351 - Advanced Piano Ensemble
The advanced piano class is designed for piano majors or students with equivalent proficiency. The course of study will provide solo performers an opportunity for ensemble playing experience. Areas of concentration are piano duet literature, two-piano and four-piano literature, piano accompanying, and multiple score reading. Prerequisite(s): Written permission of instructor.

MPER 5421 - Advanced Chamber Music
This course provides students with a coached experience in advanced musicianship skills relating to playing in small chamber ensembles. The course emphasizes full participation in a chamber ensemble that reflects actual professional experience. Students will develop the skills necessary to interpret and perform music at a professional level. This course may be taken four (4) times for credit.

MPER 5481 - Collegium Musicum
This course is a performance laboratory in which technical skills relevant to historical performance are developed, especially those that relate to ensemble performance. It covers the historical national styles, ornamentation, specific stylistic skills and knowledge relevant to the individual instrument families as well as issues of rhythm, tempo, expression and articulation.

MPER 5501 - Opera Performance
This course is the advanced application of vocal, theatrical, and offstage skills to a fully staged production of an opera. It requires participation in all aspects of opera, including but not limited to vocal technique, stage movement, singing in other languages, dramatic analysis of roles, musical preparation, and dance. It culminates in one or more public performances of an opera. Students may be required to fulfill backstage duties as well as onstage roles.

MPER 5511 - Advanced Orchestral Wind Study
This course provides students with a coached experience in orchestral wind performance, emphasizing analytical and interpretative skills. The course emphasizes full participation in a symphonic orchestra that reflects actual professional experience. Students will execute at an advanced level the skills necessary to interpret and perform orchestral literature at a professional level as well as to function in leadership positions within the ensemble. This course may be taken eight (8) time for credit.

MPER 5561 - Jazz Ensemble
UCO Jazz Ensembles provide graduate students with in-depth technical guidance in ensemble and solo performance while also developing advanced proficiency in a wide range of styles necessary to perform jazz and commercial music on a professional level. This course may be taken four (4) times for credit. Prerequisite(s): High level of performance proficiency as determined by the director.
### Graduate Course Descriptions

<table>
<thead>
<tr>
<th>Course Code</th>
<th>Course Title</th>
<th>Credit Hours</th>
<th>Notes</th>
</tr>
</thead>
<tbody>
<tr>
<td>MRKT 5900</td>
<td>Practicum In Marketing</td>
<td>1-4 hours</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>MRKT 5910</td>
<td>Seminar / Special Topics</td>
<td>1-4 hours</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>MRKT 5920</td>
<td>Workshop in Marketing</td>
<td>1-4 hours</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>MRKT 5930</td>
<td>Individual Study In Marketing</td>
<td>1-4 hours</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>MRKT 5940</td>
<td>Field Study In Marketing</td>
<td>1-4 hours</td>
<td>Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>MRKT 5950</td>
<td>Internship In Marketing</td>
<td>1-8 hours</td>
<td>Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.</td>
</tr>
<tr>
<td>MRKT 5960</td>
<td>Institute In Marketing</td>
<td>1-8 hours</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>MRKT 5970</td>
<td>Study Tour</td>
<td>1-8 hours</td>
<td>Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.</td>
</tr>
<tr>
<td>MRKT 5990</td>
<td>Thesis</td>
<td>1-6 hours</td>
<td>Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.</td>
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</tbody>
</table>

### BUSINESS ANALYTICS (MSBA)

#### Department of Information Systems and Operations Management

<table>
<thead>
<tr>
<th>Course Code</th>
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</tr>
</thead>
<tbody>
<tr>
<td>MSBA 5112</td>
<td>Spreadsheet Modeling</td>
<td>3 hours</td>
<td>This course teaches spreadsheet skills for business decision making and problem solving. Students learn to create expressions using formulas and functions, professionally format data, and professionally present data analysis using graphs. Students will also design and execute Monte Carlo simulations to solve business problems.</td>
</tr>
<tr>
<td>MSBA 5222</td>
<td>Database Foundations</td>
<td>3 hours</td>
<td>This class teaches the principles of data modeling, SQL databases, and data storage relevant to business intelligence. Students will learn to use software tools to model database schema, and import/export data from databases and data warehouses.</td>
</tr>
<tr>
<td>MSBA 5232</td>
<td>Data Visualization</td>
<td>3 hours</td>
<td>This course will introduce students to the field of data visualization so as to increase the understanding of complex data and data models. Students will learn basic visualization design, evaluation principles, as well as data acquisition and parsing of large data sets. Additionally, students will learn techniques for visualizing multivariate, temporal, text-based, geospatial, hierarchical and network/graph-based data. A variety of current tools will be introduced to enhance student learning and understanding of the field.</td>
</tr>
</tbody>
</table>
MSBA 5244 - Financial Modeling & Analysis
This course focuses on building financial models based on the principles of corporate finance to solve common financial management problems related to asset valuation, investment decisions, financing decisions, financial planning, current asset management and risk assessment. The course uses MS Excel and other programs and includes a number of hands on assignments that use current data. The course uses MS Excel and other programs and includes a number of hands on assignments that use current data. The emphasis will be on applications and practice rather than on theory. The instructional approach for the course will include a minimum of lectures, plenty of discussions, and a number of model building exercises. Extensive use of currently available firm-specific and industry and macro and market data will be used for the model applications. Prerequisite(s): STAT 5213.

MSBA 5302 - Programming for Analytics
This course emphasizes core programming skills needed for working in analytics such as loading data from various file formats, cleaning, transforming, merging, and reshaping data sets, and aggregating data. Students will be expected to code their own programming projects to read, write, and analyze data sets.

MSBA 5314 - Applied Analytics
This course introduces students to Data Mining skills using SAS technologies. Students are introduced to analytics from an organizational and managerial perspective. It introduces the theory behind many approaches to business decision making and problem solving using data. Students will utilize SAS tools to solve business problems using different approaches. Prerequisite(s): STAT 5213.

MSBA 5324 - Marketing Analytics
Marketing Analytics helps students analyze gathered data for better decision-making with marketing and analytical skills. This course deals with the process of gathering, analyzing, and interpreting customer data to make better decisions from the firm's perspective. Assuming that firms are given data for customer insights, this course introduces various types of marketing areas for decision-making and teaches students how to use advanced statistical methods for making marketing decisions. Examples of marketing decisions areas are targeting, new product development, sales promotion, pricing decisions, design of marketing mix, sales force allocation, and so on. Statistical methods utilized include choice models, latent class models, conjoint analysis methods, forecasting methods, and so on. Prerequisite(s): STAT 5213.

MSBA 5406 - Advanced Applied Analytics
This course is an advanced course in Data Mining using SAS technologies that builds on the material in MSBA 5304 Applied Analytics. The primary purpose of the course is to prepare students to manage and complete a significant analytics project. The project involves identification of a business problem, exploring possible solutions, and professionally communicating a recommendation. The deliverable project is suitable for presenting at several different analytics conferences although presenting at one of these conferences is optional and not required. The course will also teach advanced topics related to data analysis available through SAS tools. Prerequisite(s): MSBA 5314.

MSBA 5411 - Managing Analytics
This course focuses on management issues related to launching analytics or business intelligence programs, and related enterprise implementations. Topics covered include but are not limited to Data Governance, Privacy, Machine Learning, and Hadoop. Invited speakers will discuss trending industry technologies and lessons learned from industry projects.

MSBA 5900 - Practicum in Business Analytics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MSBA 5910 - Seminal in Business Analytics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MSBA 5920 - Workshop in Business Analytics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MSBA 5940 - Field Study in Business Analytics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MSBA 5950 - Internship in Business Analytics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MSBA 5960 - Institute in Business Analytics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MSBA 5970 - Study Tour in Business Analytics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MSBA 5980 - Graduate Project
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MSBA 5990 - Thesis in Business Analytics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

MUSIC EDUCATION (MUED)
School of Music

MUED 5123 - Foundations of Music Education
This is a presentation of the major disciplines specific to music education including history, philosophy, psychology, pedagogy and sociology of music education. The course intends to inform the practice of music education through a study and integration of those disciplines that provide a multi-dimensional view of the field.

MUED 5213 - History of Music Education
This course surveys the history of music education from antiquity to the present, placing special emphasis on current music education in the United States. The survey views music education within the larger context of education history, method and philosophy and gives special attention to recent relevant developments in cognitive theory.
Graduate Course Descriptions

MUED 5223 - Philosophy of Music Education
This course presents a survey of philosophical systems, subjects, and issues relating to music education in a survey of philosophies from ancient times to the present. The course concentrates on modern philosophies of music education, their distinctive differences, and the impact that these philosophies have on current music education and advocacy.

MUED 5333 - Current Trends in Practice
This course acquaints students with recent developments and innovations in the philosophy, psychology, pedagogy and advocacy of music with the specific purpose of evaluating their effectiveness and applicability for today's music classroom.

MUED 5413 - Trends in Marching Band
This course covers marching band fundamentals, various types of precision marching, pageantry, charting and show planning. Each student will be required to write an original seven minute halftime show.

MUED 5433 - Secondary Vocal Methods
This course covers advanced material relating to instructional, organizational and philosophical issues relevant to the conduct of vocal music programs at the secondary level. It concentrates on the methods and materials for conducting a high school choir.

MUED 5513 - Music Advocacy for Schools
This course investigates the major issues relating to advocating music education in the public school system, considers the variety of stakeholders, and surveys the relevant research and scholarly work relating to the subject. Students will formulate for a specific situation an advocacy plan that addresses all relevant concerns and issues.

MUED 5723 - Arranging for Marching Band
This course develops the advanced skills necessary for creating successful marching routines consistent with current practice and aesthetics. Students will gain a command of the techniques of selection and arranging of music and coordination with effective marching drills and maneuvers toward the design and creation of multimedia performances typical of current practice.

MUED 5743 - Music Administration
This course provides students with the skills necessary to manage a department-level music program including budget formulation, tactical and strategic planning, personnel management and curriculum evaluation.

MUED 5833 - Instructional Methods & Materials
This course is designed to help the graduate student identify new approaches or refine current approaches to instructional, organizational, or philosophical issues that affect instrumental music education programs.

MUED 5843 - Instrumental Methods
This course covers teaching instrumental music from beginning instruction through high school with particular attention to the integration of methodological techniques with the philosophy, psychology, and pedagogy of music.

MUED 5853 - Elementary Music Methods
This course studies the methods of teaching general and vocal music classes in the early grades emphasizing a deeper study of the interrelationships of educational philosophy, methodology, teaching technique and how they apply in a variety of teaching situations.

MUED 5900 - Practicum in Music Education
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Permission of department chairperson required.

MUED 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

MUED 5920 - Workshop in Music Educ
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

MUED 5930 - Individual Study In Music Education
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects, based on approved outlines or plans; conferences, oral and written reports.

MUED 5940 - Field Study in Music Educ
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

MUED 5950 - Internship in Music Education
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

MUED 5960 - Institute in Music Education
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

MUED 5970 - Study Tour in Music Education
Credit will vary. Subject matter will vary within the department’s field of study.

MUED 5980 - Graduate Project
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

MUED 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

MUSIC (MUS)
School of Music

MUS 5022 - Music For Small Vocal Ensemble
Repertoire and performance practices of music for small vocal ensemble ranging from 16th century madrigal to contemporary literature.

MUS 5043 - Music in America
The course possesses a socio-historical orientation and covers a broad spectrum of the musical life of the United States since its colonization. The content includes sacred and secular, popular and classical, as well as some of the folk traditions that have made important contributions to American musical life.

MUS 5062 - Applied Composition
This course is the advanced study of the art of music composition by an individual student under the direct supervision of the instructor. This approach allows for the instructor to provide intensive feedback to individual needs as the student advances through more complex musical structures and ideas to achieve a professional level of skill in composition.

MUS 5113 - Advanced Choral Conducting
This course develops advanced techniques of choral conducting especially as they relate to the performance practice of distinct stylistic and historical periods.
MUS 5133 - Baroque Music
This course presents an intensive exploration of baroque music (1600-1750) with special emphasis on its historical and social context and their influence on the music of the time. Students will participate actively through research and presentation of special topics areas, developing expertise in the historical and theoretical analysis of the repertoire and its primary sources. Prerequisite(s): Enrollment open to graduate music majors only.

MUS 5143 - Instrumental Ensemble Literature
This course surveys the history of wind and string instruments and the literature for these ensembles from the Middle Ages to the present.

MUS 5163 - Classical Era Music
This course presents an intensive exploration of the music of the high classical era with special emphasis on its historical and social context and their influence on the music of the time. Students will participate actively through research and presentation of special topic areas, developing expertise in the historical and theoretical analysis of the repertoire and its primary sources. Prerequisite(s): Enrollment open to graduate music majors only.

MUS 5173 - Advanced Instrumental Conducting
This course develops advanced techniques of instrumental conduct- ing especially as they relate to the performance practice of distinct stylistic and historical periods.

MUS 5182 - Collaborative Piano Lit I
The purpose of this course is to give students a deeper knowledge of the vast repertoire that exists in the realm of collaborative piano. The course is designed to survey both the standard repertoire as well as introduce more esoteric, yet substantial music. Instrumental duos, chamber works and orchestral reductions of all periods will be dis- cussed and analyzed within an historical and theoretical perspective.

MUS 5192 - Collaborative Piano Lit II
The purpose of this course is to give students a deeper knowledge of the vast repertoire that exists in the realm of collaborative piano. The course is designed to survey both the standard repertoire as well as introduce more esoteric, yet substantial music. Vocal duos, chamber works and operatic orchestral reductions of all periods will be discussed and analyzed within an historical and theoretical perspective.

MUS 5202 - Advanced Voice Pedagogy
A survey of methods of teaching singing with emphasis on vocal problems as illustrated through demonstration lessons with advanced students.

MUS 5213 - Music Theatre Directing I
The historical emergence of the director, production techniques, working with staff, artistic staff and performers, and coordination of all elements of pre-production, production, and post production. Prerequisite(s): MUSIC 2473, 3423, and written permission of instructor.

MUS 5223 - Music Theatre Directing II
The student will choose scenes from music theatre repertoire, cast them, and select the crew and staff. The student will take scenes through production and performance. Prerequisite(s): MUSIC 2331, 3622, 4213, and written permission of instructor.

MUS 5232 - Music For Elementary Teachers
A practical, activity-oriented approach to elementary music methods for persons holding a Bachelor of Music or Bachelor of Music Education degree. Prerequisite(s): Bachelor of Music or Music Education degree. This course replaces MUS 5033 & MUS 5032 Music for Elementary Teachers.

MUS 5263 - Choral Literature
This course is a study of selected major choral works from the Renaissance to 20th Century periods through historical, analytical, stylistic, textual and pedagogical perspectives. Graduate students will be required to present research on assigned topics.

MUS 5273 - History of Music Theatre
This course will examine the history, philosophy, and significance of one of the quintessentially American forms of performance—the musical theatre. The course will explore the context of the musical in the theatre throughout history and in the contemporary arts through a study of historical evolution. Prerequisite(s): Enrollment open to Master of Music and Jazz Studies majors only.

MUS 5291 - Ldrshp Chamber Music Ensemble
This ensemble focuses on the process of forming of a successful chamber music group and the rehearsal and performance of various styles of literature. The participants will be expected to perform outreach in the Oklahoma City Metropolitan area. This course may be taken 8 times for credit. Prerequisite(s): Must be concurrently enrolled in applied lessons.

MUS 5312 - Introduction to Music Research
This course introduces students to resources and research methods, appropriate to a variety of information needs met in a professional career in music. Students also gain experience in presenting the results of research in both oral and written form, as appropriate to different audiences and purposes.

MUS 5323 - Piano Literature I
This course is a study of piano literature from the Baroque, Classical, and the early Romantic periods. It involves performance practices of these styles and periods through performing, listening, and analysis of the literature. Prerequisite(s): Four (4) semester hours of applied piano (MPER 3020, 4000).

MUS 5333 - Piano Literature II
This course is a study of piano literature from the Baroque, Classical, and the early Romantic periods. It involves performance practices of these styles and periods through performing, listening, and analysis of the literature. Prerequisite(s): Four (4) semester hours of applied piano (MPER 3020, 4000).

MUS 5341 - Writing About Music
This course is designed to refine students' writing skills for a variety of professional purposes and potential readers related specifically to music. Most class time is spent in individual recitations. It also effectively supplements Introduction to Music Research for those students who need assistance in mastering formal, scholarly style in writing.

MUS 5362 - Advanced Music Composition
Advanced music composition explores the creative process of writing acoustic and electroacoustic music. The computer is used to create music notation and multitrack compositions. The course may be taken more than once and can count for 2 hours of theory credit and up to 6 hours of elective credits in the master of music degree. Prerequisite(s): Eight hours of undergraduate harmony.

MUS 5372 - Computer Music Technology
MUS 5383 - Advanced Recording Technology
Advanced Recording Technology is an in-depth study of the complete
schematics of the UCO Jazz Lab Recording Studio. Topics will include
Microphone Selection and Placement, Signal Routing and Cabling,
Analog and Digital Mixer Applications, Audio Interface Applications,
Analog and Digital Recording Techniques, Digital Performer Plug-
Ins, Audio Latency Management, Mixing Techniques, and Mastering
Techniques. Prerequisite(s): MUS 5373.

MUS 5392 - Advanced Arranging
This course develops advanced techniques of arranging music especially as they apply to specific musical ensembles, styles and
professional applications. Students will examine stylistic and genre-
specific compositional approaches and learn various notation traditions
including lead-sheet notation, rhythm charts, and standard notation.
Students will produce professional scores and parts for each project
and organize a public performance of the final project. All projects
will be completed using computer notation software.

MUS 5422 - Contemporary Analytical Survey
This course explores a broad range of analytical techniques and issues
relevant to twentieth-century music. While focusing on historical and
social context, this course combines a survey of twentieth-century
compositional styles with advanced musicianship exercises focusing
on the post-tonal repertoire. Analysis and model composition as-
ignments will address aspects of pitch-class set and serial theory,
as well as other techniques developed by contemporary composers.

MUS 5443 - Arts Management
Arts Management will cover the following important career topics:
resumes, media kits, web page development, branding, taxes and
record keeping, legalities — including contracts and copyright issues,
Networking, personal presentation (i.e. interviews and auditions),
researching and recognizing career enhancing opportunities, and
developing a career strategy. Graduate students will be required
to complete additional research and present a minimum of three
classroom presentations on assigned topics.

MUS 5453 - Music Theory Pedagogy
This course covers the essentials of diatonic and chromatic harmony
and voice-leading, through part- writing, analysis, and aural training.
Students will obtain a deeper understanding of this subject material
and the methodology of teaching it through practical experience in
teaching and conducting elements of the course.

MUS 5463 - Studies in Music Theory
This title embraces a continually changing variety of specific courses
in the broad field of music theory, each designed around the particular
expertise or research interest of the individual instructor. The subject
areas include but are not limited to specific analytical techniques,
the analysis of specific repertoires, issues in the history of theory,
and contemporary issues in theoretical analysis. In each case an
emphasis is placed on the state of current research in the field and
the involvement of students in independent research.

MUS 5473 - Advanced Counterpoint
This course in contrapuntal composition focuses on techniques of
modal counterpoint and how those techniques are further used in
contemporary music. Students will examine the relationship between
Pre-tonal voice-leading and modern compositional practices, the
historical compositional similarities, and the evolution of voice-leading
procedures through survey and analysis. Students will compose
short musical compositions utilizing specific techniques learned
throughout the course.

MUS 5483 - Native American Music
This course is an advanced exploration of Native American music as
an integral part of Native American life. Students in this class will
study the history, preservation and perpetuation of these traditional
cultures in contemporary public and private context focusing on
graduate level research, writing, event planning, and presentation.

MUS 5493 - Advanced Aural Skills
This course addresses various techniques for developing aural skills
for advanced chromaticism, melodic materials and rhythmic structures
using a broad range of musical styles, including classical, pop, jazz,
film, musical theater and world music.

MUS 5503 - Advanced Conducting-Score Read
This course presents a thorough study of choral, band, and orchestral
scores and their interpretation, with particular emphasis on developing
more advanced techniques and experiences in conducting.

MUS 5512 - Brass Pedagogy
This course will address methodological approaches to technical and
musical aspects of brass teaching in the context of exercises, studies,
and repertoire. Prerequisite(s): Concurrent enrollment in
Applied Brass and 6 hours of Applied Brass at the graduate or
undergraduate level.

MUS 5522 - Woodwind Pedagogy
This course will address methodological approaches to technical and
musical aspects of woodwind teaching in the context of exercises, studies,
and repertoire. Prerequisite(s): Concurrent enrollment in
Applied Woodwinds and 6 hours of Applied Woodwinds at the graduate or
undergraduate level.

MUS 5532 - String Pedagogy
This course will address methodological approaches to technical and
musical aspects of string teaching in the context of exercises, studies,
and repertoire. Prerequisite(s): Concurrent enrollment in
Applied String and 6 hours of Applied String at the graduate or
undergraduate level.

MUS 5542 - Percussion Pedagogy
This course will address methodological approaches to technical and
musical aspects of percussion teaching in the context of exercises, studies,
and repertoire. Prerequisite(s): Concurrent enrollment in
Applied Percussion and 6 hours of Applied Percussion at the graduate or
undergraduate level.

MUS 5553 - History of Vocal Pedagogy
Students will compare and contrast theories of vocal pedagogy, from
the traditional methods of Tosi, Garcia and others to the functional,
vocal science based methods of today. Both classical and contem-
porary commercial music styles will be covered as well as methods
of teaching children and dealing with the aging voice. Prerequisite(s):
MUS 5202 or concurrent enrollment in MUS 5202 and MUS 5561 or
current enrollment in MUS 5561.

MUS 5561 - Voice Pedagogy Lab
The Voice Pedagogy Lab will be taken concurrently with MUS 5202,
Advanced Vocal Pedagogy, and will introduce the use of Voiceview and
other voice analysis programs for use in the voice studio. The class
will also observe the dissection of the thorax and the larynx, create
models of the larynx and lungs, and create public service projects
on vocal health. Concurrent enrollment in MUS 5202 is required.
MUS 5572 - British and American Song
This course is the study of British and American Song for solo voice or vocal chamber ensemble. The purpose of this course is to inform performance practice through the study of the musical style, structure, historical and social context, including attention to textual interpretation and diction of British and American Song. The course is presented through lecture, demonstrations, recordings and class participation of representative selections of the repertoire. Prerequisite(s): Enrollment is open to Master of Music and Jazz Studies majors only.

MUS 5582 - French Melodie
This course is the study of French melodie, for solo voice or vocal chamber ensemble. The purpose of this course is to inform performance practice through the study of the musical style, structure, historical and social context, including attention to textual interpretation and diction of French melodie. The course is presented through lecture, demonstrations, recordings and class participation of representative selections of the repertoire. Prerequisite(s): Enrollment open to Master of Music and Jazz Studies majors only.

MUS 5592 - German Lieder
This course is the study of German Lieder, for solo voice or vocal chamber ensembles. The purpose of this course is to inform practice through the study of the musical style, structure, and historical and social context, including attention to textual interpretation and diction of German Lieder. The course is presented through lecture, demonstrations, recordings and class participation of representative selections of the repertoire. Prerequisite(s): Enrollment open to Master of Music and Jazz Studies majors only.

MUS 5613 - Jazz Pedagogy
This course will teach techniques of instruction in the areas of jazz improvisation and jazz ensemble performance appropriate for teaching at the high school and university levels. Independent research and laboratory rehearsal experiences will be required.

MUS 5633 - Jazz History
This course will examine the historical development of jazz music as well as the important elements which comprise the individual styles of jazz. The class will focus on important musicians and literature of each era. Attention will also be brought to social aspects of American history as it directly relates to the development of jazz music. Graduate students will complete additional research projects and give a minimum of three class presentations on assigned topics.

MUS 5653 - Jazz & Commercial Music Arranging
Jazz & Commercial Music Arranging instructs the student in the art of wind, string, vocal, and rhythm section arranging as relates to jazz and commercial music styles. Students will be expected to arrange for jazz ensemble, studio rhythm section, various combinations of horns/strings, and vocals.

MUS 5662 - CD Album Pre-Production
This course is intended to give students laboratory studio time with instructor supervision to complete pre-production of the graduate CD album. This includes composition, arranging and orchestration, and scratch reference tracks. Prerequisite(s): MUS 5372, 5383, and (5653 or concurrent enrollment).

MUS 5674 - CD Album Production
CD Album Production is to be taken during the final spring semester of the Master of Music in Jazz Studies Commercial Music Production Degree. During this semester project, the student will complete all recording, editing, mixing, and mastering of the final CD Album project. Prerequisite(s): MUS 5372, 5383, and 5662.

MUS 5682 - Survey of Music Theory
This course is designed to present the entering graduate student with a summary of those skills in music theory—written, aural and analytical—required for successful graduate study in music. The course emphasizes a more complete synthesis of the diverse elements of music theory than that achieved in the undergraduate curriculum, in which synthesis is directed toward the goal of application in professional practice. Prerequisite(s): Enrollment is open to Master of Music and Jazz Studies majors only.

MUS 5692 - Survey of Music History
This course introduces graduate students through a survey of music history to the critical and analytical techniques, as applied to the history of musical composition, necessary for successful work as a graduate student and a practicing professional musician. Prerequisite(s): Enrollment open to Master of Music and Jazz Studies majors only.

MUS 5703 - Cont Perf of American Music
"Contemporary Performance of American Music" consists of weekly listening to live performances of various musical genres (i.e. classical, jazz, rock, gospel, country, bluegrass, etc. —both choral and instrumental) and evaluating the performance and the musical style through class discussion, student presentations and written critiques. Transformative research of contemporary musical genres with class presentations is also part of the class assignments. Prerequisite(s): Enrollment open to Master of Music and Jazz Studies majors only.

MUS 5713 - Analytical Techniques
This course introduces students to the advanced application of techniques of harmonic and formal analysis as applied to the repertoires of western music from the eighteenth through the early twentieth century.

MUS 5723 - History of Performance
This course surveys the development of western music from medieval to modern times from the perspective of music performance and its literature. Students will study such aspects as historical performance as rhythm, tempo, ornamentation, and improvisation as well as learn how to distinguish practices appropriate to specific historical periods. Students will also receive an introduction into the primary and secondary literature in the field and how to evaluate both it and issues of philosophy, aesthetics and authenticity.

MUS 5733 - History of Theory
This course traces the impact of music theory on the development of western music from ancient to modern times. The interaction between academic and practical traditions, as revealed in the separate literatures of academic speculative theory and practical theory of composition and performance practice, will be covered. Prerequisite(s): MUS 2623, 2663 and 3273 with a minimum grade of “C”.

MUS 5743 - Music History Pedagogy
This course is designed to present the entering graduate student with a summary of those skills in music theory—written, aural and analytical—required for successful graduate study in music. The course emphasizes a more complete synthesis of the diverse elements of music theory than that achieved in the undergraduate curriculum, in which synthesis is directed toward the goal of application in professional practice. Prerequisite(s): Enrollment is open to Master of Music and Jazz Studies majors only.

MUS 5753 - Studies in Music History
This course is designed to present the entering graduate student with a summary of those skills in music theory—written, aural and analytical—required for successful graduate study in music. The course emphasizes a more complete synthesis of the diverse elements of music theory than that achieved in the undergraduate curriculum, in which synthesis is directed toward the goal of application in professional practice. Prerequisite(s): Enrollment is open to Master of Music and Jazz Studies majors only.

MUS 5762 - Survey of Music Theory
This course is designed to present the entering graduate student with a summary of those skills in music theory—written, aural and analytical—required for successful graduate study in music. The course emphasizes a more complete synthesis of the diverse elements of music theory than that achieved in the undergraduate curriculum, in which synthesis is directed toward the goal of application in professional practice. Prerequisite(s): Enrollment is open to Master of Music and Jazz Studies majors only.

MUS 5763 - Survey of Music History
This course introduces graduate students through a survey of music history to the critical and analytical techniques, as applied to the history of musical composition, necessary for successful work as a graduate student and a practicing professional musician. Prerequisite(s): Enrollment open to Master of Music and Jazz Studies majors only.

MUS 5764 - CD Album Production
CD Album Production is to be taken during the final spring semester of the Master of Music in Jazz Studies Commercial Music Production Degree. During this semester project, the student will complete all recording, editing, mixing, and mastering of the final CD Album project. Prerequisite(s): MUS 5372, 5383, and 5662.
MUS 5773 - History of Instruments
This course covers the history of keyboard, woodwind, brass, string and percussion instruments in their general and technical development, considering them in the context of historical performance. It also makes references to how development was affected by such issues as significant innovations in orchestration and tuning and temperament systems.

MUS 5783 - History of Opera
This course will examine the creation of the operatic form, from its predecessor forms of Greek and Medieval Liturgical drama to 21st Century opera. Students will learn a general knowledge of opera history and its literature, and be able to identify topics of specific interest for future study.

MUS 5802 - Crnt Trends in Piano Pedagogy
This is a survey course on piano pedagogy, and related issues on piano teaching and learning. Current trends in piano pedagogy are applied in class discussions, presentation, and different assignments, including technology assisted learning, teaching students with special needs or disabilities, Recreational Music Making (RMM), and ever evolving issues that are crucial to the development of the field of piano teaching in all levels and ages. This course is designed to address the needs of a survey course in current trends piano pedagogy without the requirements of applied piano pedagogy.

MUS 5812 - Choral Directors Institute
The choral directors institute is a three-day lecture series for choral directors. Nationally recognized clinicians will offer sessions on all areas of choral music.

MUS 5831 - Opera Workshop
Opera Workshop presents the advanced levels of performance on the operatic stage through extensive study of opera scenes, acting, dictation, recitative work and audition techniques. The semester ends with a public performance of opera scenes studied during the semester. This course may be taken six times for credit. Prerequisite(s): Enrollment open to Master of Music and Jazz Studies majors only.

MUS 5882 - Piano Pedagogy
This course is a study of the materials and techniques of teaching piano, from beginners to advanced levels, in private and group settings. Concurrent enrollment in MPER 5010 Applied Piano Pedagogy is required for piano pedagogy majors. For piano performance and collaborative piano majors, concurrent enrollment in MPER 5010 Applied Piano Pedagogy is recommended.

MUS 5892 - Advanced Piano Pedagogy
This is a continuation of the studies of piano teaching from MUS 5882 Piano Pedagogy. Current trends in piano pedagogy and related piano teaching issues are included. Students will prepare a teaching portfolio suitable for the national certification for the Music Teachers National Association (MTNA). Students will research and create pedagogy workshop presentations on students' chosen topics as part of the course requirements. Concurrent enrollment in MPER 5010 Applied Piano Pedagogy is required for piano pedagogy majors. Prerequisite(s): MUS 5882.

MUS 5900 - Practicum In Music
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Permission of department chair required.

MUS 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study on selected problems or special topics. Prerequisite(s): An undergraduate minor in the subject matter area and permission of the Department head and the director of graduate studies.

MUS 5920 - Workshop in Music
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

MUS 5930 - Individual Study In Music
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects, based on approved outlines or plans; conferences, oral and written reports.

MUS 5940 - Field Study In Music
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

MUS 5950 - Internship In Music
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

MUS 5960 - Institute In Music
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

MUS 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

MUS 5980 - Graduate Project
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

MUS 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

NUTRITION (NTRN)
Department of Human Environmental Science

NTRN 5032 - Nutrition Education
This course provides the application of learning theory and media in the design, development and delivery of nutrition education and counseling programs.

NTRN 5102 - Newer Trends In Nutrition
This course includes a thorough study of the newer trends and recent research in nutrition. Prerequisite(s): Permission of instructor.

NTRN 5184 - Advanced Nutrition
The advanced study of nutrition including digestion, absorption, and metabolism of all nutrients with an emphasis on the latest nutrition research. Prerequisite(s): NTRN 4034, CHEM 3403, CHEM 4103 or concurrent enrollment, and BIO 2604.

NTRN 5193 - Food Science
This course includes an investigation of the scientific techniques that must be utilized by food scientists and technologists to bring commercially viable products to the marketplace. Prerequisite(s): NTRN 1613 and CHEM 3303.

NTRN 5212 - Management Of Nutrition Services
This course includes the study of concepts, processes, and theories of managing clinical nutrition services. The course will emphasize the delivery of high quality, cost-effective service that can be justified to hospital administrators, health care team members and patients. Prerequisite(s): Enrollment open to Nutrition and Food Management majors only.
NTRN 5223 - Institutional Food Management
This course includes all organization and administration of food service systems. Emphasis is on physical facilities, financial control, menus and purchasing. Prerequisite(s): NTRN 4673 and 4673L.

NTRN 5233 - Research Methods In Nutrition
This course includes the basic techniques and methodology in nutrition research; reviewing current research studies and interpreting findings in order to evaluate research in the nutrition areas of specialization.

NTRN 5322 - Nutrition Assessment
This course includes the process used to assess nutritional needs of individuals or groups, and to plan a measurable nutrition intervention program appropriate for clients in various special health care settings. Prerequisite(s): Accepted into the Dietetic Internship and permission required by instructor. Enrollment is open to Nutrition and Food Management majors only.

NTRN 5333 - Computers In Nutrition
The course offers the opportunity to use state of the art software developed for food management operations and nutrition services. Prerequisite(s): Computer literacy and graduate standing in nutrition and food management.

NTRN 5402 - Nutritional Concerns Of Women
The course includes a study of scientific nutrition research on issues pertinent to women's health in all age groups.

NTRN 5412 - Pediatric & Prenatal Nutrition
This course offers a study of the biological bases for nutrient requirements and dietary recommendations as they vary throughout the life cycle. It covers the nutritional needs of women during pregnancy and lactation, infants, and children.

NTRN 5422 - Sports Nutrition for Professionals
This course is an advanced study of nutrition and the application of the principles of nutrient metabolism as they relate to physical activity, sport and health. This course will emphasize the development of skills required by the professional to assess and provide dietary advice for the active individual. A study of current research and trends will be incorporated. Prerequisite(s): NTRN 4394 or (HLTH 3412 and PHYED 3503) or permission of instructor. Enrollment open to Nutrition and Food Management, Nutrition, Dietetic, and Wellness Management majors only.

NTRN 5523 - Counseling in Dietetics
This course will provide a study of behavior theories and counseling methods in individuals and groups as it applies to the practice of dietetics.

NTRN 5633 - Foodservice Financial Mgmt
This course will develop financial and accounting skills to meet the complicated financial management demands of food management professionals especially in healthcare. It will assist the student and improve decision-making skills in regard to efficient and cost effective operations.

NTRN 5641 - Public Policy in Nutrition
This course is an introduction to the legislative and public process in the United States, in the state, and on a local level with special emphasis on nutrition policy. It will involve developing an understanding of how laws are made and defining public policy. There will be an emphasis on grass roots involvement and other influences on public policy.

NTRN 5653 - Advanced Food Science
This course examines major principles in food science, such as chemical ingredients of food, issues in food product development, sensory evaluation, microbiological concerns of food and food laws and regulations. Prerequisite(s): NTRN 4123. Enrollment open to Nutrition and Food Management majors only.

NTRN 5663 - Food Laws and Regulations
This course is designed for those who wish to understand the legal and regulatory complexities of food products regulation in the United States, and the responsibilities of the different federal agencies involved in the regulation. Issues such as food safety, regulatory compliance, HACCP, genetic modifications, food additives, food and nutrition labeling, dietary supplements and the protection of the food supply will be covered. Prerequisite(s): NTRN 5643 and graduate standing. Enrollment open to Nutrition and Food Science majors only.

NTRN 5892 - Advanced Clinical Nutrition
This course includes the development of skills required of the professional nutrition care specialist. It additionally provides an opportunity to integrate nutrition knowledge with its application in clinical care in a variety of health care practice settings. Prerequisite(s): NTRN 4394, NTRN 4034, CHEM 3403, CHEM 3442, and BIO 2604. Permission required.

NTRN 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

NTRN 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Directed intensive study of selected problems or special topics. Prerequisite(s): An undergraduate minor in the subject matter area and written permission of graduate advisor.

NTRN 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

NTRN 5930 - Individual Study
Credit will vary from 1 to 4 hours. Directed intensive study on definite problems or special subjects based on approved outlines or plans, conferences, oral and written reports. Prerequisite(s): An undergraduate major in the subject matter area and permission of graduate advisor.

NTRN 5940 - Field Study in Nutrition
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

NTRN 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

NTRN 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

NTRN 5970 - Study Tour In Nutrition
Credit will vary. Subject matter will vary within the department's field of study.

NTRN 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

NURSING (NURS)
Department of Nursing
NURS 5103 - Pathophysiology for Non Majors
This course is intended for students who did not have pathophysiology in their undergraduate degree and/or for students who are not declaring a major in nursing for their graduate degree. It includes the study of physiological mechanisms altered by disease in the human organism, and explores the rationale for diagnosis and therapeutic interventions in disease conditions. Prerequisite(s): BIO 2604.

NURS 5113 - Advanced Pathophysiology
This course provides an advanced understanding of pathophysiologic processes underlying human illness. Instruction applies a systems approach to covering pathophysiologic processes associated with altered health states in adults. This course is required for nursing master of science majors. Students are required to have completed pathophysiology in undergraduate course work.

NURS 5133 - Advanced Pharmacology
This course provides a basis for understanding the use of pharmacotherapeutic agents for clients across the human life span. The course builds upon the pharmacologic knowledge base acquired at the baccalaureate level in nursing.

NURS 5153 - Advanced Health Assessment
This course includes a combination of classroom and clinical experience which enables students to develop advanced practice nursing skills in individual health assessment of infants, children, adults and aging people. In addition, students develop skills in family assessment.

NURS 5213 - Teaching, Learning, & Nursing Theories
This course explores major research-based theories of adult learning and knowledge development in nursing. These theories will be examined for their utility across a variety of settings/and or levels of education.

NURS 5233 - Advanced Research/EBP
This course focuses on in-depth analysis and decision strategies in selecting and evaluating appropriate research designs, sampling methods, data collection methods, measurement strategies, instrument development, and data analysis in the development of scientific investigations. Students will apply research outcomes within the practice setting, resolve practice problems, work as a change agent, and disseminate result of a research or evidence-based project. Prerequisite(s): An undergraduate or graduate course in statistics.

NURS 5323 - Organizational & Systems Leadership
This course examines principles of organizational and systems leadership critical to the promotion of high quality and safe patient care. Included is the study of leadership skills that emphasize ethical and critical decision making, effective working relationships, and a systems-perspective. This course also explores the methods, tools, performance measures, and standards related to quality, as well as application of quality principles within an organization.

NURS 5322 - Healthcare Informatics
This course provides an introduction to the field of nursing informatics, current state of the science, and major issues for research and development. This course provides basic information on the role of nurses in informatics, and the use of information systems and information management in various aspects of nursing practice, education, management, and research.

NURS 5353 - Legal/Ethical Issues in Healthcare
This course promotes an examination of legal and ethical concepts, values, theories, and principles relevant to nursing practice, health, and healthcare. The content will provide an opportunity for students to explore current ethical and legal issues that impact professional nursing, healthcare, and the health of aggregate populations; apply ethical decision-making that is related to ethical dilemma in nursing practice, healthcare, and populations; and analyze ethical and legal aspects for the provision of health services at the institutional, community, and systems level.

NURS 5412 - Clinical Nursing Course
This course facilitates development of clinical proficiency through the use of focused and sustained clinical experiences designed to strengthen patient-care delivery skills, as well as system assessment and interventions skills. The course includes precepted clinical experiences and simulations. Prerequisite(s): Two of the following: NURS 5113, 5133, and 5153.

NURS 5423 - Curriculum Development: Nursing
This course is designed for persons who are or will be engaged in teaching within academic nursing education settings. The primary focus is the process of curriculum development. Philosophical, social, political, economic, and professional issues that need to be considered in planning curricula, and evaluation of existing curricula or changing curricula are examined. Prerequisite(s): NURS 5213.

NURS 5443 - Complex Adaptive Systems
This course provides an opportunity for application of complex adaptive system concepts and techniques in health care and public health settings to assure quality practice, organizational and client outcomes, employee engagement, and improved health status of the population of concern. Prerequisite(s): NURS 5213 or approval of the instructor.

NURS 5613 - Tests and Evaluation Procedures
Tests and Evaluation Procedures will provide methods of assessing learning outcomes for individuals and groups in nursing, including academic and clinical settings. Emphasis is placed on methods to evaluate educational programs, institutions, personnel, and students. Prerequisite(s): NURS 5213.

NURS 5623 - Educational Strategies Practice
This course provides preparation for employment and development of competencies as educators in academic and complex healthcare organizations. Course concepts include functioning within the educational environment; understanding research abilities; teaching-learning processes; the use of technology, civic engagement, and service; and developing effective communication skills with diverse groups. Students conduct a practicum experience in order to synthesize theory and research related to the role of nurse educator. Prerequisite(s): NURS 5213, 5423 and 5613.

NURS 5900 - Practicum In Nursing
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

NURS 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

NURS 5920 - Workshop in Nursing
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

NURS 5930 - Individual Study In Nursing
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.
Graduate Course Descriptions

NURS 5940 - Field Study In Nursing
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

NURS 5960 - Institute In Nursing
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

NURS 5970 - Study Tour In Nursing
Credit will vary. Subject matter will vary within the department’s field of study.

NURS 5980 - Graduate Project
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

NURS 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

OCCUPATIONAL AND TECHNOLOGY EDUCATION (OCTE)
Department of Adult Education & Safety Science

OCTE 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

OCTE 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

OCTE 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

OCTE 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

OCTE 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

OCTE 5950 - Internship
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

OCTE 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

PHYSICAL EDUCATION (PHED)
Department of Kinesiology and Health Studies

PHED 5102 - Problems Of Health And Physical Education
Individual investigation of research methods and special problems in health and physical education.

PHED 5122 - Program Design & Development In Health And Physical Education
An analytical study of aims, objectives, program activities methods and outcomes in the programs in health and physical education, within and outside the school setting.

PHED 5123 - Curriculum Construction Health & Physical Education
An analytical study of aims, objectives, program activities methods and outcomes in the teaching of health and physical education.

PHED 5153 - Physical Education Facilities/Equipment
A course emphasizing the functional planning of physical education facilities and equipment for outdoor and indoor areas, stadium, gymnasium, swimming pool and other.

PHED 5202 - Health & Physical Education For The Elementary Teacher
Study of the basic content and general principles of health and physical education appropriate to the elementary school program; organization of materials, procedures and techniques of instruction. Prerequisite(s): PHED 3302 or its equivalent.

PHED 5212 - Health & Physical Education For The Secondary Teacher
Study of the basic content and general principles of health and physical education appropriate to the secondary school program; organization of materials, procedures and techniques of instruction. Prerequisite(s): PHED 4303.

PHED 5222 - Physical Education In Higher Education
A study of the function of physical education in the general education and professional preparation curricula of higher education institutions. Also an intensive study of the physical education faculty member’s role as a member of the higher education community.

PHED 5233 - Contemporary Issues In Physical Education And Sport
This course involves an analysis of selected contemporary issues in the areas of physical education and sport with emphasis on rational development and evaluation of viewpoints.

PHED 5252 - Legal Aspects Physical Education, Recreation And Athletics
A study of the legal responsibilities of persons functioning in the fields of physical education, recreation, and athletics including the application and interpretation of the law.

PHED 5272 - Motor & Body Image
A diagnostic-prescriptive approach in the determination and remediation of problems in motor development. Discusses the gross and fine-motor development and body-image development as relates to problems in learning and adjustment. The student experiences theoretical and practical activities: (1) administering motor- based tests common in schools, (2) developing a prescriptive program for remediation of deficits determined through testing, and (3) writing assessment results and recommending activities for alleviation.

PHED 5313 - Applied Sports Psychology
This course is a study of psychological theories and techniques that could be used to enhance the performance and personal growth of sports and exercise participants from youth to elite levels.

PHED 5363 - Psychological Basis Of Human Performance
A study of the principles of learning as applied in the teaching of physical education.

PHED 5602 - Physical Education & Recreation For The Exceptional Child
Understanding motor characteristics and assessing motor development of the exceptional child; development and adaptation of physical education and recreation programs; and field and/or laboratory experiences.

PHED 5632 - History & Philosophy Of Health & Physical Education
A study of the historical and philosophical bases of health and physical education.
PHIL 5323 - Philosophy of Religion
Philosophy of Religion is designed to expose the student to the classical and contemporary philosophical analyses of the claims of religion. It is a critical and reflective survey of the central beliefs and tenets of religion, and a metaphysical and epistemological examination of the nature of religious belief. No philosophy background is required for this course.

PHIL 5343 - Philosophy of Morality
Philosophy of Morality is a study of what philosophers have said about the meaning of the word “good” and its cognates in other Indo-European languages. Topics in Western moral philosophy to be covered will include Ancient Virtue Ethics, Kantianism, Utilitarianism, Moorean Intuitionism, and Moral Skepticism. No philosophy background is required for this course.

PHIL 5363 - Philosophy of History
Philosophy of History is a study of some major philosophical theories about the structure and patterns exhibited by human history. Topics to be covered will include the Christian and Whig historical worldviews, Hegelianism, Marxism, Post-Modernism, and Skepticism about historical prediction. No philosophy background is required for this course.

PHIL 5433 - On Human Nature
On Human Nature is an advanced survey of philosophical, theological, and scientific accounts of human nature, from ancient Greece to the present day.

PHIL 5503 - Symbolic Logic
The course will begin with the logic of syntax, followed by an analysis of truth-functional compound statements and truth tables. A variety of proof procedures applicable to deductive arguments will be investigated and used, including formal and indirect proofs. Propositional functions and the use of quantifiers, the logic of relations, and finally, a study of the nature of deductive systems will complete the course.

PHIL 5900 - Practicum In Philosophy
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

PHIL 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

PHIL 5920 - Workshop In Philosophy
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

PHIL 5930 - Individual Study In Philosophy
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

PHIL 5940 - Field Study In Humanities
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

PHIL 5950 - Internship In Philosophy
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

PHIL 5960 - Institute In Philosophy
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

PHIL 5970 - Study Tour In Philosophy
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

PHIL 5980 - Field Study In Humanities
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

PHIL 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

PHIL 5992 - Workshop in Philosophy
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

PHIL 5993 - Individual Study In Philosophy
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

PHIL 5994 - Field Study In Humanities
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

PHIL 5995 - Internship In Philosophy
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

PHIL 5996 - Institute In Philosophy
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

PHIL 5997 - Study Tour In Philosophy
Credit will vary. Subject matter will vary within the department's field of study.

PHIL 5998 - Field Study In Humanities
Credit will vary. Subject matter will vary within the department's field of study.

PHIL 5999 - Thesis
Credit will vary. Subject matter will vary within the department's field of study.
PHYSICS (PHY)

Department of Engineering and Physics

PHY 5013 - Mathematical Physics II
This course discusses the mathematical solutions to boundary value problems found in electrostatics, mechanics, heat transfer, quantum mechanics, and acoustics. The mathematical topics may include curvilinear coordinates, Fourier analysis, Fourier transforms, partial differential equations, Green’s functions, tensor analysis and group theory. Prerequisite(s): PHY 3883.

PHY 5033 - Nuclear Physics
An introduction to the physics of the nucleus and elementary particles is presented. Basic models of nuclear structure, nuclear interactions, and nuclear reactions will be emphasized. The quark model along with the families of elementary particles and their interactions will be introduced. Prerequisite(s): PHY 3103 and PHY 3883.

PHY 5043 - Solid State Physics
The purpose of this course is to acquaint the students with the fundamental physics of solids. The emphasis will be on crystal lattices, elastic scattering of waves, bonding, atomic vibrations, electron states, dielectric and optical properties, and semiconductors. Prerequisite(s): PHY 3103 and 9 additional hours upper division level physics.

PHY 5063 - Analytical Mechanics
A vector analytical approach to particle and rigid-body dynamics is presented, including a brief introduction to the Lagrangian and Hamiltonian formulations of mechanics, and special relativity. Prerequisite(s): PHY 3883 with a minimum grade of “C”.

PHY 5071 - Nuclear Radiation Laboratory
This laboratory course provides a thorough introduction to equipment and techniques of nuclear radiation detection and measurement. The experimental properties of the types of nuclear radiation, their origin, characteristics, detection and interaction with matter are emphasized. Prerequisite(s): PHY 3103 or concurrent enrollment.

PHY 5103 - Classical Mechanics
Lagrangian and Hamiltonian methods will be introduced and applied, as appropriate, to a variety of mechanical systems. Topics will include vibration theory, elasticity, fluid mechanics, and acoustics. Prerequisite(s): PHY 5063.

PHY 5143 - Statistical Mechanics
The kinetic theory of gases, including transport phenomena, and an introduction to classical and quantum statistical mechanics are presented. Prerequisite(s): ENGR 5023 and PHY 3883.

PHY 5203 - Applied Electrodynamics
Electromagnetic theory is applied to the description of static and time-dependent electric and magnetic fields, electromagnetic radiation, wave guides, transmission lines, and related problems. Prerequisite(s): ENGR 5083 and PHY 5013.

PHY 5443 - Quantum Mechanics
An introduction to the theory of quantum mechanics and its applications is presented. Topics covered will include the historical development of quantum mechanics, the Schroedinger equation and its applications, the theory of operators, the theory of angular momentum, the hydrogen atom, and perturbation theory. Prerequisite(s): PHY 3103, MATH 3103.

POLITICAL SCIENCE (POL)

Department of Political Science

POL 5013 - Urban History of Policy/Administration
Urban History of Policy/Administration is the study of contemporary political, social, and economical institutions and environment of urban areas, placed in a historical context.

POL 5023 - Scope Of The Discipline
An analysis of the various fields of political science, as well as an assessment of the contributions of other disciplines and scientific approaches to the study of politics.

POL 5033 - Research Methods
This course provides an analysis of the various fields of political science, as well as an assessment of the contributions of other disciplines and scientific approaches to the study of politics.

POL 5043 - Municipal Management
Municipal Management provides an overview of the administrative and political environments of municipal governments in the United States with emphasis on Oklahoma municipalities.
POL 5053 - Public Administration Dynamics
Public Administration Dynamics introduces the study of public administration by exploring the role of bureaucracy in a democracy, applying management and organizational theory to the public setting, and illustrating the work life of a public administrator through various simulations and case studies. Particular focus will be on the concepts and problems of public administration with emphasis on the development of organizations, management of human resources, ethical practice, emerging professionalism, and oversight of governmental budgeting and finance. Formerly POL 5293.

POL 5113 - Advanced Contemporary Problems
The study of current happenings in the student's area of graduate specialization with emphasis on assessing the relevance of theoretical principles to actual events.

POL 5123 - Budgeting for Cities & States
Budgeting for Cities & States examines revenue sources and resource allocation processes as applied to state and local governments.

POL 5133 - Problems-State & Urban Government
A study of the problems existing in relationships between state and local governmental units.

POL 5143 - Problems-International Affairs
Case studies in the resolution of geographic and functional problems in international affairs, tailored to students' specific international interests.

POL 5153 - American Politics
A survey of selected literature from the field of American politics. Subjects covered will come from among the following: Presidency, Congress, judiciary, political parties, interest groups, electoral behavior, media in politics, and public opinion.

POL 5163 - Intergovernmental Relations
An exploration of the relationships among the federal, state, metropolitan, and local units of government. Current trends, issues, administrative structures and procedures are emphasized.

POL 5173 - Urban Planning and Politics
Urban Planning and Politics is a comprehensive survey of American law of land use planning and controls, with emphasis on the law of nuisance; restrictive covenants, planning, zoning and subdivision controls; and recent innovations in land use controls.

POL 5193 - Public Finance Budgeting
Public Finance and Budgeting is an analysis of revenue sources and expenditures including the planning, approval, and implementation of public budgets.

POL 5203 - Public Organizational Theory
Public Organizational Theory surveys and analyzes the major classical, modern, and contemporary theories of organizations, along with applications of those theories to governmental and nonprofit organizations, with special reference to the dynamic social and political subsystems in which they exist.

POL 5213 - Political Sociology
An examination of extremism and political deviancy, emphasizing the causes and sociological implications of extremism. Prerequisite(s): POL 1113 and SOC 2103.

POL 5223 - Presidency & Executive Branch
Presidency & Executive Branch is the study of the presidency in law and practice; its relationship to Congress, the public, the party structure and the administrative establishment; and its responsibilities in foreign and military affairs. Prerequisite(s): POL 1113.

POL 5233 - Political Parties/Behavior
Structure and function of the American political party system with emphasis upon the role of parties in American politics, noting the political behavior patterns of American voters. Evaluation of recent political behavior research. Prerequisite(s): POL 1113.

POL 5243 - Media And Politics
Discussion of the role of the media in politics, including how the media covers American institutions, and the impact of the media on campaigns. Our campaign coverage will examine the role of television advertising, campaign coverage, and public opinion polls. This course also examines the political and social messages of several “entertainment” media, such as television and films, as well as the dynamics behind these messages.

POL 5253 - The Congress
This course is designed to introduce the student to the first branch of government. It will evaluate Congress, its functions, relationships, members, and organization in order to determine whether it achieves the purpose for which it was created. Prerequisite(s): POL 1113.

POL 5263 - Judicial Process
This course examines the organization, jurisdiction, and functions of both federal and state courts, as well as, explores theories of judicial behavior and judicial policy-making.

POL 5273 - International Politics Risk Analysis
An analysis of techniques useful in forecasting regime changes, nationalization, controls on profit reparation, and other political risks faced by companies operating in foreign countries.

POL 5283 - Public Opinion
A study of public opinion and the techniques of mass media and propaganda in a democratic society, including its measurement and evaluation with particular reference to the role of interest groups. Prerequisite(s): POL 1113.

POL 5323 - Constitution & Criminal Procedure
This course covers the constitutional boundaries, established by the Supreme Court, for gathering evidence at a crime scene, questioning witnesses/suspects, arresting suspects, and seizing evidence as well as the constitutional rights of the accused at trial.

POL 5333 - Constitution & Civil Liberties
This course is an analysis of the U.S. Constitution as interpreted by federal courts, emphasizing constitutional limitations on governmental actions, particularly with respect to civil liberties.

POL 5343 - Middle East Politics
Middle East Politics examines selected aspects of politics in the Middle East, with particular emphasis on current changes in Middle Eastern politics and world affairs. The objective of this course is to introduce students to the domestic politics and the external factors that have influenced Middle Eastern countries and their relations with the outside world. Topics of discussions may include religions, cultures, ideologies, colonialism, modernization and democratization, nationalism, ethnicity and social movements, foreign policymaking and the status of women in the modern Middle East.

POL 5353 - Ethics in the Public Service
Ethics in the Public Service is designed to give students a framework for understanding the unique ethical dilemmas that challenge leaders whose work will likely impact the public at large.
POL 5363 - Urban Sustainability
Urban Sustainability is the study of the relationship between local political processes and the pursuit of sustainable development in Oklahoma as well as worldwide. This class focuses on the theoretical underpinnings of sustainability and sustainable development as applied in the urban context.

POL 5373 - Science and Technology Policy
Science and Technology Policy introduces students to the analysis of the interactions among science, technology, and policy through a multidisciplinary approach. This course prepares students to engage in effective policy analysis and ethical administrative decision making concerning the broader societal implications of science and technology.

POL 5383 - Fund of Emergency Management
Fundamentals of Emergency Management is an overview of the history and philosophy of the current emergency management systems. Concepts, issues, and programs associated with emergency management agencies are explored. Local, state, and federal government, as well as non-profit and private organizations', roles and responsibilities for preparing for, responding to, recovering from, and mitigating against natural and man-made disasters are discussed.

POL 5403 - Women and Politics
This course will focus on the political status of women from a comparative perspective. The specific aim of the course is to examine the changing roles of women in recent history, the political and cultural impetuses behind these changes, and how these changes (or absence of change) have affected the lives of women in different political and cultural settings.

POL 5413 - Public Policy Analysis
Public Policy Analysis is designed to equip students to become independently capable policy analysts. The methods and procedures of policy analysis are learned and practiced, and examples of analysis of policies on the local, state, and national levels are studied.

POL 5423 - Public Executive Leadership
Public Executive Leadership examines executive leadership theories, principles and practices applicable to local, state, tribal, and federal governments, and to nonprofit organizations.

POL 5433 - Minority Politics & Policy
Minority Politics and Policy is an examination of the intricacies of diversity and the decomposition of the American urban areas, focusing on the role of city government, urban political processes, and representation techniques.

POL 5443 - Environmental Politics
Environmental Politics will examine the politics of the environment by looking at the actions or inactions of the government in the areas of resource scarcity, environmental health and safety, natural esthetics, and economic groups. This class will also look at environmental politics as just one of many social movements in the United States. As such, this class will examine how interest groups supporting the environmental movement have developed in recent decades and how they seek to protect their interests.

POL 5453 - Cases in Public Administration
Cases in Public Administration is the analysis of contemporary public administration issues and cases related to citizen participation, decision making, ethics, public health, national defense, bureaucracy, organizational behavior, budgeting and finance, planning, policy analysis, leadership, privatization, management, and human resources.

POL 5463 - Managing Nonprofit Organizations
Managing Nonprofit Organizations examines the unique challenges and opportunities nonprofits encounter. The course encompasses governmental and business perspectives on the purpose, scope, history, legality, funding and economic impact of nonprofit organizations.

POL 5473 - Public Sector Human Resources
Public Sector Human Resources explores the history, philosophies, techniques, problems and processes of human resource management in governmental and nonprofit organizations. Specific topics include civil service reform, recruitment and training in the public sector, and public sector Equal Employment Opportunity (EEO) and labor problems.

POL 5483 - Administrative Law
Administrative Law acquaints students with the constitutional concepts and case law relevant for federal employment and service delivery, the related activities of local, state, and tribal governments, and issues pertaining to private firms doing business with governmental and/or nonprofit organizations.

POL 5503 - Immigration Policy
Immigration Policy focuses on the political development of immigration policy at the local, state, national, and international levels. Historical and contemporary issues in policy design and implementation are explored within the context of how a territorially-bounded population and its government define themselves as a nation. This course introduces basic theories and essential terms used in immigration studies. Issues such as asylum seekers, border militarization, citizenship status, drug smuggling, human trafficking, international terrorism, refugees, and other areas related to immigration law and policy are analyzed. Prerequisite(s): ENG 1113 and ENG 1213.

POL 5513 - Public Program Evaluation
Public Program Evaluation enhances students' skills in quantitative and qualitative program evaluation. This course examines the nature, history, and techniques of program evaluation as well as the dissemination of information. The scientific method is applied to the program-solving process through such techniques as quasi-experimental research design, data collection, analysis, and report writing.

POL 5523 - Urban Housing Policy
A study of the various factors which affect national and local housing issues, with discussion of housing problems in the urban environment.

POL 5533 - Dispute Resolution/Negotiation
Dispute Resolution/Negotiation studies contemporary methods of resolving development dispute through negotiation, bargaining, and mediation. Techniques and skills applicable to solving controversies over planning and implementation of public and private development projects are emphasized.

POL 5543 - State Administration & Policy
State Administration & Policy is the study of the administrative institutions, policy making processes, and political environment of state government, emphasizing both theory and practice. Prerequisite(s): POL 1203, 2413.

POL 5553 - Espionage and Intelligence
Espionage and Intelligence studies the means by which national governments collect and analyze information about the actions and intentions of foreign governments and other international entities. Also included are government efforts to influence political events abroad and to prevent foreign penetration of intelligence services.
POL 5563 - Economic Development
Economic Development will examine the systematic study of the development and strategic management of assets and resources to improve quality of life and standard of living in a sustainable manner in both rural and urban communities. Instruction in economic development theory, infrastructure development, investment policy, the role of government in business development, and the study of social, health, and environmental influences on economic development will constitute the core subject matter.

POL 5573 - Islam and Politics
Islam and Politics examines thematic areas concerning the general relationship between Islam and politics in modern world affairs. It explores diversities within and among Islamic societies and highlights differences between Islamic movements and trends affiliated with both mainstream political Islam and Islamic radicalism. The course covers other, often controversial, issues concerning debates on Islam and democracy, the persistence of authoritarianism in Arab and Muslim societies and controversies surrounding the relationships between Islamic and Western values and societies. The lectures and discussion will also address a wide range of case-studies and conflicts that have often resulted in regional and international crises, including, but not limited to, the Palestinian-Israeli conflict, the Cyprus dispute, the war in Bosnia and the Indian-Pakistani battles over Kashmir.

POL 5583 - Comparative Public Administration
Comparative Public Administration will examine the application of comparative methodologies to the study of administrative institutions, processes, and behaviors across organizational, national, and cultural boundaries, as well as enhance student understanding of public management in a global context.

POL 5603 - Theories-International Relations
An examination of the major theories of international relations, focusing on their contributions to framing the analysis of international interactions. The works of seminal authors will be studied for their insights into such central concepts of international political analysis as: sovereignty, balance of power, and national interest.

POL 5613 - World Politics
An analysis of the political interactions among nation-states, multinational corporations, and international organizations; and the pattern of relationships that result. Focuses particularly on war-peace issues and the politics of international economic and social relations. Prerequisite(s): POL 2303.

POL 5623 - American Foreign Policy
A study of the major themes and issues which have, in recent years, informed the practice of American foreign policy. Among the topics covered are: the inter-branch struggle in foreign policy making, trade and national security policy, and challenges confronting American foreign policy in specific geographic and functional areas.

POL 5633 - International Law
A study of the legal aspects of international relations, and of the generative role of international law in informing actors of the nature and limits of authoritative practices within the international community.

POL 5643 - International Security Studies
A study of analytical frameworks which seek to explain the nature of international conflict. Consideration will also be given to such practical threats to global peace and stability as weapons proliferation, regional military balances, strategic competition and threat psychology.
POL 5793 - Managing Public Sector Crises
Managing Public Sector Crises is designed to provide future and current public sector and nonprofit leaders with the information and skills needed to engage in effective crisis management planning (CMP), implementation, communication, and evaluation.

POL 5813 - Political Philosophy
A focused examination of one of the major themes of political philosophy such as freedom, justice, democracy, or political economy, which applies a number of analytical methods to the selected them.

POL 5823 - Religion And Politics
This course examines the relationship between religion and politics in the United States, and in selected other countries, by focusing on the participation of religious organizations in the political process and the influence of religion upon leaders of governments and political movements.

POL 5833 - Survey Of American Political Thought
A survey of main currents in American political thought from puritanism to the present. Prerequisite(s): POL 1113.

POL 5843 - Ancient & Medieval Political Thought
The development of political theories from Plato to Rousseau. Prerequisite(s): POL 1113.

POL 5853 - Modern Political Thought
An analysis of the development of political philosophy form John Locke to the present, including fascism, communism, and other systems of political thought. Prerequisite(s): POL 1113.

POL 5900 - Practicum In Political Science
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

POL 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

POL 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

POL 5930 - Individual Study In Government
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

POL 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

POL 5950 - Internship
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

POL 5960 - Institute In Political Science
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

POL 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

POL 5983 - Capstone Paper
This course meets the writing requirement that is part of the department's Master's program. The topic of the Capstone Paper is chosen in consultation with a faculty advisor and should reflect an important issue within the discipline.

POL 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

PROFESSIONAL SCIENCE MASTERS (PSM)

PSM 5001 - Math Found of Computation
This course provides the foundation for further study in scientific computing including the fundamentals of computer programming, linear algebra, differential equations, and infinite series. This course is taught as a hybrid course where 50% of the course consists of online content. Prerequisite(s): Permission of the PSM Director.

PSM 5013 - Computational Sci for Prof I
This course provides a foundation for the use of computational modeling and simulation to solve problems in science, engineering, and mathematics with a focus on professional communication of results. The fundamentals of modeling and consideration of system dynamics, error propagation, differential equations, data analysis, stochastic processes, and other selected topics will be covered. Independent student projects that include written and oral reports are integral components of this course. Prerequisite(s): PSM 5001

PSM 5113 - Computational Sci for Prof II
This course is a continuation of PSM 5013 and focuses on advanced computational modeling and simulation to solve problems in science, engineering, and mathematics with a focus on professional communication of results. Topics including, but not limited to the following will be covered: diffusion, agent-based modeling, high performance computing, and matrix models. Independent student projects that include written and oral reports are integral components of this course. Student projects are expected to serve as a launching point for the PSM Project sequence. Prerequisite(s): PSM 5013

PSM 5203 - Introduction to Data Science
This course provides an introduction to the application of computational techniques to parse, analyze, and visualize data for predictive purposes. This course covers techniques such as data visualization, basic statistics, gradient descent methods, k-nearest neighbors, regression, and other topics.

PSM 5681 - Integrative Project I
In this course students will develop business-related projects that serve a present computational need of a client. These projects should tie together the computational, business, and project management elements of the PSM program. This class will culminate in a report and presentation that detail the project and its deliverables. Each student in the class will take the lead in one project, but students are strongly encouraged to collaborate and interact with others: including the client, other PSM or MBA students, and faculty. Prerequisite(s): Permission of the PSM program director.

PSM 5781 - Integrative Project II
This course is a continuation of PSM 5681. In this course students will proceed with the implementation of the approved project plan developed in PSM 5681. Updates and communication with the project client and the course instructor are critical elements of this course. Students will document achievement of project milestones and the integration of computational science and management techniques used in the project. Students will effectively communicate interactions and collaboration with the client, other PSM or MBA students, or faculty. Prerequisite(s): PSM 5681
**PSM 5881 - Integrative Project III**  
This course is the culmination of the Integrative Project sequence and a continuation of PSM 5781. In this course students will continue to implement the approved project plan developed in PSM 5681 and provide the final project deliverables to the client. Updates and communication with the project client and the course instructor are critical elements of this course. Students will document achievement of project milestones and the integration of computational science and management techniques used in the project. Students will effectively communicate interactions and collaboration with the client, other PSM or MBA students, or faculty. Prerequisite(s): PSM 5781

**PSM 5900 - Practicum in Prof Sci Masters**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PSM 5910 - Seminar in Prof Sci Masters**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PSM 5920 - Workshop in Prof Sci Masters**  
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

**PSM 5930 - Individual Study**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PSM 5940 - Field Study in Prof Sci Master**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PSM 5960 - Institute in Prof Sci Masters**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PSM 5970 - Study Tour in Prof Sci Masters**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PSM 5980 - Graduate Project**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PSM 5990 - Thesis in Prof Sci Masters**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PSY 5051 - Professional Career Planning**  
The purpose of this course is to: (1) provide advisement regarding matriculation through the Master of Arts in psychology program, (2) assist students with the delineation of career goals by providing information concerning specialized job opportunities, and (3) prepare students for beginning work on the master thesis. Prerequisite(s): must be taken the first semester of graduate enrollment and written permission of instructor.

**PSY 5143 - Advanced Developmental Psychology**  
This course provides an in-depth examination of human development from infancy through later adulthood with primary emphasis on psychological research, theory, and its application. Prerequisite(s): PSY 2833 and written permission required.

**PSY 5153 - Cognitive Assessment**  
Students will learn to administer, score, interpret, and write reports for the Wechsler intelligence and achievement tests. Students are expected to have the requisite knowledge in statistics, tests and measurements, child and adult development, and the appropriate ethical standards. Prerequisite(s): Admission to Counseling or School Psychology programs. Enrollment open to Counseling or School Psychology majors only.

**PSY 5193 - Experimental Design**  
This is a foundation course which stresses the complimentary relationship between research design and statistical analysis. The course emphasizes computer applications in the areas of experimentation, psychometrics, and data analysis. Prerequisite(s): Written permission required.

**PSY 5233 - Psychopathology**  
The purpose of the course is the study of current diagnostic criteria for psychopathology and examination of theory regarding psychopathology and personality including biological, intrapsychic, phenomenological, behavioral, sociocultural and integrative perspectives. Prerequisite(s): PSY 4753 and written permission required.

**PSY 5253 - Personality & Pathology Assessment**  
This is a survey course that includes examination of current methodologies for the assessment of personality functioning ranging from structured interviews to objective and projective techniques. Prerequisite(s): PSY 5153.

**PSY 5263 - Legal & Ethical Aspects Of Counseling**  
This course provides a study of the essential legal and ethical aspects of the counseling profession as presented in professional organization codes and current state and federal laws. Prerequisite(s): Written permission required.

**PSY 5273 - Perception and Action**  
Perception and action are processes that turn the raw physical energies of the world into personal experiences. Students will use behavioral and physiological data (about referents for physical motion) from their readings, discussions, and simulations to contrast theories assuming perception and action are reducible to independent processes (vision, audition, olfaction, gustation, tactile/haptic, balance, etc.) with theories assuming perception and action are reciprocal processes operating across, versus within, sensory- cognitive-motor systems. The assumptions have implications for scientific explanations of relationships between available ambient energy and physical reality.

**PSY 5283 - Biosocial Psychology**  
Contemporary readings in cognitive social psychology, neuropsychology, evolutionary theory, and anthropology are used to examine the hypothesis that humans are unique in processing a "mental life" made possible by the evolution of a narrative brain designed to function in a social environment. Prerequisite(s): Written permission required.

**PSY 5333 - Psychopathology**  
This course is designed to provide knowledge about the physiological basis of drug effects on behavior. Emphasis will be given to drug treatments for psychological problems, drugs of abuse, and the psychophysiology of addiction. Prerequisite(s): Written permission.
PSY 5343 - Psychological Science
This course provides a foundation for the general experimental psychology student and examines science as a formalized epistemological system. The course also emphasizes the importance of understanding scientific reasoning for: (1) psychology as a science, and (2) the professional psychologist as a critical consumer of information. Prerequisite(s): Written permission from psychology chair required.

PSY 5383 - Multivariate Analysis w/SPSS
Multiple regression, multivariate analysis of variance and covariance, discriminant analysis, factor analysis, log linear analysis, cluster analysis (including quick cluster), and multidimensional scaling are seven multivariate analysis procedures that are examined in this course. A focus on when and why each technique is used, familiarization of SPSS computer output for each technique and the examination of published research articles containing the application of these techniques will be covered. Prerequisite(s): PSY 3713 or concurrent enrollment and written permission of instructor.

PSY 5473 - Individual Counseling
This course provides an overview of the theories, therapeutic approaches, and empirically supported treatments specific to working with individuals. Students will become familiar with the legal, ethical, and diversity issues applicable to the diagnosis and treatment of individuals. The course will employ instruction, role play and classroom demonstration. Prerequisite(s): Admitted to the program and written permission of instructor.

PSY 5483 - Group Counseling
This course provides an overview of the theories, therapeutic approaches, and empirically supported treatments specific to working with groups. Students will become familiar with the legal, ethical, and diversity issues applicable to the diagnosis and treatment of groups. The course will employ instruction, role play and classroom demonstration. Prerequisite(s): PSY 5473 and written permission of instructor.

PSY 5493 - Competency Based Counseling
This course provides experience which will prepare counseling students for their first semester of practicum placement. The student will perform activities consistent with the demands of an off-campus practicum experience under the direct supervision of the UCO counseling faculty. Students will be provided with training experiences that require the integration of their counseling and assessment abilities with sensitivity to diversity, legal, and ethical issues. Emphasis will be placed on empirically supported treatments and therapeutic variables. This course should be taken immediately prior to practicum. Prerequisite(s): PSY 5473 with a minimum grade of “B” and written permission required.

PSY 5523 - Child & Adolescent Counseling
This course provides an overview of the theories, therapeutic approaches, and empirically supported treatments specific to working with children and adolescents. Students will become proficient in the legal, ethical, and diversity issues applicable to the diagnosis and treatment of children and adolescents through didactic instruction, role play and classroom demonstration. Prerequisite(s): PSY 5473 with a minimum grade of “B” and written permission.

PSY 5533 - Couples and Family Counseling
This course provides an overview of the theories, therapeutic approaches, and empirically supported treatments specific to working with couples and families. Students will become familiar with the legal, ethical, and diversity issues applicable to the diagnosis and treatment of couples and families. The course will employ didactic instruction, role play and classroom demonstration. Prerequisite(s): Written permission.

PSY 5543 - Career Counseling
This course provides an introduction to the major career development and trait theories, career assessment techniques, and empirically based career counseling techniques. The course emphasizes the integration of theories, techniques, and counseling applications. In addition to the classroom, the on site counseling laboratory provides the opportunity for applied practice. Prerequisite(s): PSY 5473 with a minimum grade of “B”.

PSY 5563 - Advanced Social Psychology
This course provides an in-depth study of the interaction of humans with their social environment with special emphasis on classic and current themes and methods of social research. Prerequisite(s): Written permission of instructor.

PSY 5623 - Theories of Personality
This course will discuss the primary approaches to understanding personality: psychodynamic, biological/evolutionary, behavior/social learning, trait, humanistic, and cognitive. For each approach, the course will review the origins of the theoretical approach, discuss the approach’s assumptions about personality, and examine examples of related research.

PSY 5633 - Cognitive Psychology
This course provides a comprehensive study of theories of learning and memory including a historical review and a survey of contemporary cognitive psychology. Prerequisite(s): PSY 4763 and written permission required.

PSY 5643 - Empirical Basis of Therapy
This course is designed to prepare the student for clinical work in counseling. The course will promote knowledge and understanding of those counseling variables and counseling techniques that are supported by empirical research. Prerequisite(s): PSY 5473 and written permission.

PSY 5653 - Forensic Psychology
This course reviews the contribution of psychology to the explanation of criminal conduct and the treatment and rehabilitation of offenders, covering basic concepts of criminal justice and the study of crime while examining the nature of offending from sociological, psychiatric, and psychological perspectives. It also addresses the impact of crime from the standpoint of victims as well as responses to victims of crime.

PSY 5683 - Advanced Counseling
This course provides an in-depth view of the theories, therapeutic approaches, and empirically supported treatments specific to working with various individual client populations. Students will become familiar with the legal, ethical, and diversity issues applicable to the diagnosis and treatment of various types of individual clients and diagnoses. The course will employ didactic instruction, role play and classroom demonstration. Prerequisite(s): PSY 5473 with a minimum grade of “B” and written permission of instructor.
PSY 5722 - Introduction To School Psychological Services
This is a course designed to aid school psychometrist and school psychologists in exploring their role and functions. Ethics for their discipline, legal implications, current research on assessment of children and adults, school placement, classroom management, referral sources, therapeutic intervention strategies, consultation, and professional affiliation will also be covered. Prerequisite(s): Written permission from psychology chair required.

PSY 5753 - Advanced SPSS
This course emphasizes coding data for data files, writing SPSS control files to read the data file, and completing SPSS procedures. Procedures covered range from basic data transformations to complex multivariate procedures. Prerequisite(s): PSY 3813; PSY 4383 preferred and written permission from psychology chair required.

PSY 5783 - Behavioral Neuroscience
This advanced course is about current research on the neuroanatomy, physiology, and chemistry of the brain, including neurotransmitters, receptors, neural pathways, and genetics. Studied methods include electrical and magnetic stimulation of the brain, neuroimaging, and single-cell neurophysiology. Topics include brain-based theories of sensation, perception, cognition, learning, sleep and dreams, psychopathology, and drugs and behavior. Prerequisite(s): Admission to an M.A. in Psychology program. Enrollment open to graduate psychology majors only.

PSY 5813 - Diagnostic Testing Techniques
This course is a survey of diagnostic testing techniques which deals with sensory motor skills, language development, and social and emotional development. Emphasis is placed on the rationale and functions of such instruments that help specialists in reading, counseling, and psychometry to evaluate those aspects of behavior not currently assessed by traditional testing procedures. Prerequisite(s): PSY 5153.

PSY 5823 - ABA I: Foundations in Behavior Analysis
This is the foundational course in Applied Behavior Analysis. The course is designed to cover the basic elements in 10 of the 11 core areas of applied behavior analysis. The course focuses on the ethics and basic characteristics, processes, concepts, terminology, and learning principles upon which ABA is based. Assessing behavior and designing intervention outcomes and strategies using principles of experimental evaluation including displaying and interpreting behavioral data is emphasized. ABA is compared to other explanations of behavior not currently assessed by traditional testing procedures. Prerequisite(s): PSY 5153.

PSY 5833 - ABA II: Application of Techniques in Applied Behavior Analysis
ABA II: Application of Techniques in Applied Behavior Analysis is the second of five courses in the BCBA approved sequence. The course takes basic ethical foundations and principles of ABA articulated in eight of the Core Areas to a higher level of understanding and application. Students are expected to apply knowledge and skill from both the introductory course and ABA II in the development of extensive training modules for fellow professionals using the principles of ABA. Training modules including treatment for all age levels (In Oklahoma that encompasses Sooner Start to Waivered Services Independent Adult Living). Training design includes ongoing supervision of comprehensive and intense programs for functional behavior. This course also examines the effects of the use of psychotropic medications for behavior control and dual diagnoses (Ex. Mental Illness and a developmental disability). Prerequisite(s): PSY 5823 and graduate standing.

PSY 5843 - Autism II: Autism/PDD-NOS Adv
This course is an intensive examination of the autistic spectrum and the ethical use of ABA principles in the treatment of disorders within the spectrum. Students will learn to administer a broad range of diagnostic instruments with emphasis on those used in early intervention such as ABLLS, AEPS, Social Skills Checklist, PASS skills, and the Brigance. Students learn to develop IFSP goal, IEP goals, and IP goals [for individuals on waived services] using data secured through the evaluation process. Finally, students develop and implement intensive programs covering all core skills areas for individuals with autism using the methods designed with the foundations of ABA (verbal behavior, natural environment teaching, discrete trial teaching, and others). Prerequisite(s): PSY 5823 and PSY 5833 and graduate standing.

PSY 5853 - ABA III: Topics in Applied Behavioral Analysis
This course compares the ethics of ABA versus Behavior Modification and other ethical and legal considerations of ABA in a practicum setting. The course engages aspects of 8 of the 11 Core Areas of ABA including the study of organic syndromes and brain injury. The course takes concepts introduced and studied in ABA I and ABA II and raises the intensity of study to a more intense level, requiring student to develop extensive training modules for fellow professionals. Training modules include all age levels of treatment from early childhood services to Waivered Services Independent Adult Living and include ongoing supervision of comprehensive and intense programs for functional behavior. This course also examines the effects of psychotropic medications for behavior control and the factors to consider in dual diagnoses. Prerequisite(s): PSY 5823, PSY 5833, PSY 5843 and graduate standing.

PSY 5863 - ABA IV: Single Subject Design
This course is the culminating application level course in the 5 course training sequence covering all 11 BCBA Core Areas. Students are responsible for demonstrating to a board of examiners the student's understanding and skills in the field of ABA through a multiple baseline study. Additionally, the course requires students to demonstrate to the instructor the process of diagnosis, intervention planning, and the broad array of intervention techniques required in the application of ABA principles. Prerequisite(s): PSY 5823, PSY 5833, PSY 5843, PSY 5853 and graduate standing.

PSY 5873 - Ethical Conduct & Principles of ABA
Ethical Conduct and Principles of Applied Behavior Analysis (ABA) will focus on the ethical standards and guidelines for responsible conduct of behavior analysts. Students will be expected to explain and behave in accordance with the philosophical assumptions of behavior analysis by defining and demonstrating the use of terms such as response class, respondent conditioning, motivating operations, etc. Utilizing case studies, specific to applied behavior analysis, students will analyze and synthesize methods to identify problem behaviors and how to assess them, fundamental elements of behavior change, behavior change systems, interventions and change considerations, and ethical methods to implement change as required by the national Behavior Analysis Certification Board. In addition students will be expected to demonstrate effective and ethical management and supervision skills through their enrollment in an ABA internship. Prerequisite(s): PSY 5823, 5833, 5843.

PSY 5883 - School Based Psycho-Educational Intervention
School psychology students will learn advanced intervention design with an emphasis on behavior analytic approaches to individualized, school based intervention. Prerequisite(s): PSY 5722 and 5823. Enrollment open to Psychology-Counseling and School Psychology majors only.
### Graduate Course Descriptions

**PSY 5893 - Consultation in School Psychology**
The course focuses on developing appropriate cognitive and academic goals for students with different abilities, disabilities, individual needs. An emphasis is placed on implementing interventions through consultation and collaboration across a range of systems including school, home, and community. Prerequisite(s): 19 hours of School Psychology. Enrollment open to School Psychology majors only.

**PSY 5900 - Practicum In Psychology**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Prerequisite(s): PSY 5483 or 5813 and written permission of instructor.

**PSY 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Prerequisite(s): PSY 5483 or 5813 and written permission of instructor.

**PSY 5920 - Workshop in Psychology**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**PSY 5930 - Individual Study In Psychology**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**PSY 5940 - Field Study In Psychology**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**PSY 5950 - Internship In Psychology**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**PSY 5960 - Institute In Psychology**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**PSY 5970 - Study Tour**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**PSY 5990 - Thesis**
Credit will vary from 1 to 3 hours. Subject matter will vary within the department’s field of study.

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**PTE 5930 - Individual Study**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**PTE 5940 - Field Study**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

**PTE 5950 - Internship**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**PTE 5960 - Institute**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

**PTE 5970 - Study Tour**
Credit will vary. Subject matter will vary within the department’s field of study.

**PTE 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

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**READING (READ)**

**Donna Nigh Department of Advanced Professional & Special Services**

**READ 5023 - Developmental/Correction Classroom Reading Experience**
This course provides classroom experience for teachers meeting the needs of readers in developmental/corrective groups. Special attention will be given to the task of identifying, within the classroom, reading levels/problems.

**READ 5613 - Secondary/Adult Disabled Reader**
This course is designed for the teacher desiring experience in testing and teaching the disabled secondary/adult learner. The course will be conducted for two hours, plus an hour arranged. The first two hours will be devoted to the clinical aspects of the course. Each clinical student will be assigned a disabled reader in a practicum for the purpose of remedial assistance. One hour will be devoted to consultations between the supervising professor and the class members. The main focus of concern is threefold: 1) explanation of diagnostic administration and interpretation 2) outlining measures of implementation for a prescriptive program and 3) understanding the psychological, social and intellectual needs of the secondary/adult disabled reader.

**READ 5623 - Foundations & Survey Reading**
An introductory course giving an overview of current practices in teaching reading, remedial and developmental reading techniques and a review of recent research in reading.

**READ 5663 - Theoretical Basis Of Reading**
The theoretical basis of reading includes the cognitive impact on how one learns to read using the psychological, physiological and cognitive model.

**READ 5712 - Organization & Supervision Of Reading Programs**
Policies and techniques of planning, implementing and supervising of reading centers and programs in schools and school systems.
READ 5813 - Adolescent Literacy
Adolescent Literacy is a course emphasizing the study of curriculum, philosophy, research, and related instructional strategies, assessments, and materials applicable to the teaching of literacy with adolescent learners. Students will document their mastery of required competencies for certification through the successful completion of coaching a teacher of adolescents in the development of a Thematic Inquiry Teaching Unit.

READ 5833 - Diagnosis Intervention Reading
Candidates learn to identify children with reading difficulties and develop strategies for remediation. Methods of teaching reading and implementation are the primary focus of this class. The children, who are instrumental in this practicum experience, exhibit exceptionalities, individual differences, and cultural and linguistic diversity. A tutorial component requires that each candidate apply the knowledge and skills attained through assigned readings and class instruction in an authentic teaching/learning situation. Graduate candidates will work closely with faculty to analyze and synthesize course components. Prerequisite(s): SPED 4102 or SPED 5123. Enrollment open to Special Education majors only.

READ 5843 - Diagnosis and Correction Of Reading Disabilities with Tier II Intervention
Diagnosis and Correction of Reading Disabilities with Tier II Interventions will address the principles and procedures for diagnosing and correcting reading disabilities. Under the supervision of a reading professor, students will gain experience assessing reading skills using the assessments presented in the class. Students will also learn Tier II intervention strategies that fit within the Response to Intervention (RTI) Reading Model. Students will complete a diagnostic case study and a teacher work sample. Prerequisite(s): READ 5623 or concurrent enrollment.

READ 5853L - Clinical Practice In Reading Lab
Lab for READ 5853. Summer sessions only.

READ 5854 - Clinical Practices In Reading
A practicum in the reading clinic with enrollees working with disabled readers. Prerequisite(s): READ 5863 or READ 5443.

READ 5863 - Reading Assment & Tier III Interventions
Reading assessments along with instructional reading strategies for Tier III in the Response to Intervention Three-Tier Reading Model will be implemented in this course. This course will be part of a sequence in which the course READ 5843 will precede this course and READ 5854 will follow. The focus for the reading candidate is to accurately identify children with marked reading difficulties who have not responded to Tier II efforts. In Tier III the reading candidate will learn to diagnose reading disabilities and specifically design and customize reading instruction gleaned from the diagnostic data. Prerequisite(s): READ 5843. Enrollment open to Reading majors only.

READ 5900 - Practicum In Reading
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

READ 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

READ 5920 - Workshop in Education
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

READ 5930 - Individual Study In Reading
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

READ 5940 - Field Study In Reading
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

READ 5950 - Internship In Reading
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

READ 5960 - Institute In Reading
Credit will vary from 1 to 2 hours. Subject matter will vary within the department's field of study.

READ 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

READ 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

RECREATION (REC)
Department of Kinesiology and Health Studies

REC 5362 - Therapeutic Recreation
History and principles of therapeutic recreation in the United States. The organization and management of programs serving the various exceptionalities and age groups. Current opportunities for employment and required training.

REC 5602 - Community Recreation
Investigation into the structure of community recreation systems and programs. Study of needs, leadership, facilities and personnel involved.

REC 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

REC 5930 - Individual Study In Recreation
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

REC 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

REC 5950 - Internship In Recreation
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

SUBSTANCE ABUSE STUDIES (SAS)
Department of Sociology & Substance Abuse Studies

SAS 5113 - Foundations of Addiction
Foundations of Addiction examines the historical, current, and emerging theories of addiction. The course covers categories of substance abuse, physiological and psychological effects of alcohol and other drugs, the disease concept of addiction, family and social dimensions of substance abuse, and the principal therapy and treatment approaches to the disease. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.
SAS 5223 - Advanced Individual Counsel
Advanced Individual Counseling provides an in-depth review of counseling theory and current practice. The student will be familiar with psychoanalytic, Gestalt, Reality, cognitive behavioral, and Rogerian Therapy. Change Theory and 12-step facilitation will be applied. Theory is applied to specific elements of substance abuse treatment for the individual, role-played therapy. Mock sessions will be videoed for review and critique. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5273 - Substance Abuse and the Family
This course is designed to provide the student with an overview of the dynamics of functional family systems. The course provides insight into the effects of chemical dependency on the family. The student is guided in exploring and identifying many of the characteristics of healthy and unhealthy family systems, including physical, emotional, and sexual abuse issues. In addition, family structure, rules, roles, boundary systems, and cultural differences are addressed. Also included in this course are the basic techniques for prevention, intervention, family treatment, and recovery of the dependent person(s) and other family members. An in-depth research paper on an appropriate subject is prepared by each student. Prerequisite(s): 12 undergraduate semester hours in sociology and/or psychology.

SAS 5303 - Substance Abuse In Special Populations
This course addresses various SOCultural factors influencing use and abuse of alcohol and other drugs in selected subgroups of American society and the effect of these influences on the treatment and recovery processes for chemical dependency. Special populations included are women, adolescents, elderly, racial/ethnic groups, gays and lesbians, high-risk professional groups, criminals, the mentally ill.

SAS 5313 - Advanced Family Counseling
Advanced Family Counseling examines all theoretical, ethical and legal aspects of the substance abuse counselor working in the primary medium of family counseling. The continuum of care for the whole family will be stressed including, education, prevention, early intervention, primary treatment, extended treatment and continuing care. Formal intervention, psychodynamics, and all facets of family counseling will be reviewed and practiced. Family systems theory will be applied in all aspects. Special emphasis will be placed on the dynamics of enabling and co-dependency. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5323 - Psychopharmacology & Neurobiology Addiction
Psychopharmacology and Neurobiology of Addiction examines the biology of alcohol and drug dependency. This will be addressed through the study of brain chemistry and related causal factors and patho-physiological processes, including brain function and behavioral correlated, molecular adaptation, and the genetics of addiction disorders. The role of psychopharmacology is viewed from a broad perspective focusing on alcohol and drug abuse, agents frequently used in the management and resolution of withdrawal symptoms, co-occurring mental health issues, and the ethical responsibilities of the clinician in the treatment of clients on psychotropic medications. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5333 - Advanced Counseling Skills/Substance Abuse
This course examines the helping relationship, including skills relevant to working with persons affected by chemical dependency. The course will include examination of qualities of a functional helping relationship and social-psychological issues involved in working with the chemically dependent person such as denial, treatment goals, and when/how to intervene in the dysfunctional personal/social world of this person. The course will include demonstration and role-playing of techniques of a functional helping relationship. Prerequisite(s): SOC 3023.

SAS 5343 - Prevention And Education In Substance Abuse
This course will examine contemporary prevention theories and the basic strategies of comprehensive prevention programming. The course will explore historical and current prevention programs. The course will examine the process of implementing prevention programs in communities through community mobilization and action planning. The course will explore prevention as a method of thinking about problems and issues.

SAS 5353 - Advanced Group Dynamics
Advanced Group Dynamics provides in-depth study of the theory and practice of group therapy as it applies to individuals and families dealing with substance abuse and mental health issues. The course examines ethical and legal aspects as well as research pertaining to best practices and outcome measurement on group treatment in substance abuse and mental health. Students will have the opportunity to facilitate in role play of all aspects of group leadership. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5413 - Psychopathology & Co-Occurring Disorders
Psychopathology and Co-Occurring Disorders uses the current Diagnostic and Statistical Manual of Mental Disorders (DSM) to learn the basis of diagnosis and classification of abnormal psychology, including major mental illnesses, substance use, and personality disorders. Using case studies in multiple formats, the students apply the current DSM and critical thinking skills to support or refute their diagnostic impressions of the psychopathology and substance use disorders of their case studies. Other areas include learning the basics of conducting a formal mental health and substance use diagnostic interview taking into consideration the multicultural, legal, and ethical issues involved in the field. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5433 - Advanced Human Development for Substance Abuse Professionals
Advanced Human Development for Substance Abuse Professionals provides an in-depth look at human development as it evolves from infancy through adulthood. Specific issues that will be examined are the emotional, mental, and physical effects of substance abuse. Counseling implications are investigated for each with integrated ethical and legal principles and standards in developmental counseling. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5443 - Family Systems Theory
Family Systems Theory is an approach to practice that views the family as both composed of subsystems and also as part of larger supra-systems. In this course, we will examine the foundations and principles of family systems theory, explore the role of relational space and socialization on individual development, and practice evidence-based structural family therapy interventions appropriate for working within the theoretical framework. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.
Graduate Course Descriptions

SAS 5513 - Advanced Family Counseling for Co-occurring Disorders
Advanced Family Counseling for Co-occurring Disorders provides an in-depth analysis of theory and current practice of family counseling for consumers with both substance abuse and mental health disorders. Family theory will be investigated as it applies to treatment of co-occurring disorders. Student teams will prepare case studies to be used and role played in mock family sessions to be videoed and critiqued by the class and instructor. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5523 - Cultural Sensitivity for Addiction Treatment
Applied Cultural Sensitivity for Addiction Treatment addresses individual differences in culture and ethnicity as key considerations in the therapeutic counseling of alcohol and drug dependency. Implications for intervention and treatment are addressed for aging adults, people with physical disabilities, Gay, Lesbian, Bisexual and Transsexual minorities, and people from a variety of cultural and ethnic backgrounds, while applying ethical principles to clinical situations. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5613 - Research in Substance Abuse Studies
Research in Substance Abuse Studies provides an in-depth view of clinical research processes and functions that encompass an array of clinically relevant practices. These include scientific research, review of research literature, and their application to treatment innovations; program evaluation procedures and outcomes; and the understanding of the application of research design and methodology. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5633 - Counseling the Abused
Counseling the Abused is an extensive view of individual counseling and therapeutic processes involving the treatment of abuse and trauma. Topics include psychoanalytic, behavioral, existential, and humanistic perspectives, in addition to cognitive behavioral approaches. Select theorists are highlighted based upon relevance and application to the field of alcohol and drug dependency. Prerequisite(s): Enrollment open to Substance Abuse Studies majors only.

SAS 5893 - Capstone in SAS
Capstone in Substance Abuse Studies is designed to be the culminating experience for all Substance Abuse Studies Master’s students. It will summarize all the work covered in the substance abuse program and looks at directions for the future in the substance abuse field. Prerequisite(s): SAS 5613 or (GERO 5823 or concurrent enrollment in GERO 5823). Enrollment open to Substance Abuse Studies majors and by permission only.

SAS 5900 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

SAS 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary from within the department's field of study.

SAS 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

SAS 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. May be repeated for credit up to four hours.

SAS 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

SAS 5950 - Internship
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in the professional field of an advanced or graduate student.

SAS 5960 - Institute
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

SAS 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

SAS 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

SAFETY (SFTY)
Department of Adult Education & Safety Science

SFTY 5013 - Alcohol And Drug Education
This course is designed to explore the magnitude of the use of alcohol and drugs in our society. The individual is encouraged to explore the areas before making a decision concerning the use or nonuse of these substances.

SFTY 5083 - Industrial Safety II
This course provides an overview of the engineering and technological aspects of current industrial safety practice.

SFTY 5123 - Industrial Hygiene
This course is a study of environmental factors that occur in industry that contribute to worker illness and injury. Oxid materials, radiation, heat and noise stresses, and other concerns of the industrial hygiene discipline will be considered.

SFTY 5133 - Industrial Hygiene II
A continuation of Industrial Hygiene I, with particular emphasis on the field application of industrial hygiene instrumentation to assist the practitioner in the elimination or minimization of worker exposure to health hazards in the industrial environment. Prerequisite(s): SFTY 2503 or MATH 1513; and SFTY 4123 or SFTY 5123.

SFTY 5152 - Personal Protective Equipment
A study of the selection, use, care and maintenance of various types of personal protective equipment commonly used in industry, and an overview of the anatomy and physiology of the body organs that each type of equipment is designed to protect.

SFTY 5163 - Environmental Safety
A study of the characteristics of regulated hazardous wastes, the principles of hazardous waste management, and the OSHA regulations pertaining to the protection of workers in hazardous waste operations. Prerequisite(s): SFTY 2503.

SFTY 5173 - Fire Prevention/Protection
This course is designed to prepare the safety professional/other safety personnel for industry. Among the areas included are: factors contributing to industrial fires, the chemistry of fires, the classification of fires, special systems and agents, identification of hazardous materials, and fire prevention activities.

SFTY 5203 - Principles, History, & Philosophy Of Safety
Education
This course reviews the philosophy of industrial safety in light of its historical context. In addition, system safety and quantitative risk management models will be studied.

SFTY 5213 - Chemical/Toxic Hazardous Material/Waste
A study of the major categories of hazardous chemicals, their chemical and physical properties, and their toxicological effects on the human body. Prerequisite(s): SFTY 2503.

SFTY 5222 - Industrial Fire Systems
This course is designed to prepare the safety professional and other safety personnel for industry. Areas include fire detection systems, extinguishing systems, and fire safety systems. Prerequisite(s): SFTY 2343.

SFTY 5232 - Life Safety Code
Life safety codes are critically examined within the scope of pertinent standards and codes to assure safety from fire and its effects. All classifications of occupancies will be defined in the course.

SFTY 5243 - Industrial Noise Control
This course will provide an overview of the fundamentals of sound and sound measurements, audiogram interpretation, noise effects, noise legislation, effective hearing conservation, noise control management, and design for abatement. Attention is given to the prevention of hearing loss through engineering control and hearing conservation programs. Students will have the opportunity to analyze their own audiograms courtesy of a local safety consultant firm. Prerequisite(s): MATH 1513 or equivalent.

SFTY 5253 - Electrical Safety
This course consists of a study of the basic concepts of direct and alternating current, including the generation, transmission, safe use, and protective methods employed in industry. Prerequisite(s): Graduate standing.

SFTY 5303 - Driver & Traffic Safety II
Special attention is given to administrative policies and practices, and selection, organization, and program evaluation. A study on qualification and certification standards for teachers of high school driver education, community resources, instruction strategy, evaluation of instructional materials and equipment. Laboratory practices will include experience in programming. Prerequisite(s): SFTY 3203.

SFTY 5323 - Underground Storage Tank Management
This course will present information about the safety concerns associated with, and environmental hazards common to aboveground and underground petroleum storage tanks. The course will consist of lectures, guest speakers from regulatory and consulting arenas, and field trips. Particular attention will be paid to regulator requirements, environmental impacts, and remediation technologies for cleanup of spills emanating from leaking tanks.

SFTY 5333 - Storm Water Management
This course addresses the applicable laws, rules, and regulations that pertain to the control, management, identification, and analysis of storm water and its associated environmental problems. Included is a review of the Clean Water Act, EPA's proposed and final rules, the Federal Register and the Code of Federal Regulations.

SFTY 5402 - Supervision Of Transportation
A study of transportation as it relates to industrial concerns, including hazardous materials, driver selection, accidents, and other safety areas.

SFTY 5412 - Hazard Communication
Upon completion of this course, the student will be familiar with the principles of hazard and communication, the principles of design and delivery of hazard training programs, and the elements of an acceptable hazard communication program.

SFTY 5423 - Applied Ergonomics
This course explores methodologies and considerations involved with establishing an applied ergonomics program within industry included are methods for assessing ergonomic problems and needs, record keeping, work task analysis, investigation techniques, and corrective actions for reducing and/or eliminating ergonomic risk factors. Prerequisite(s): SFTY 3333.

SFTY 5433 - Occupational Risk Management
This course will prepare the prospective safety manager to plan, coordinate and control activities in the workplace. Other physical risk and legal risk will be studied. Prerequisite(s): SFTY 3073 and MATH 1513 or equivalent.

SFTY 5443 - Asbestos and Lead Management
This is a course in methods and practices used to determine the extent of hazards posed by the presence of asbestos-containing materials and lead paint in the workplace, the environment, and in the home. The course will familiarize the student with federal, state, and local laws and regulations governing these hazards, and the methodologies used to either remove asbestos and lead paint, or to maintain them in situ while keeping personal and environmental risks within acceptable levels.

SFTY 5453 - Hazard Waste Operation & Emergency Response

SFTY 5463 - Industrial Ventilation
This course is a study of methods and techniques of industrial ventilation systems, including local exhaust systems as engineering controls for reduction of air-borne contaminants, as well as the basic concepts of heating, ventilation, and air-conditioning (HVAC) systems. Prerequisite(s): SFTY 2503 and graduate standing.

SFTY 5633 - Accident Investigation
This course is designed to provide the student with the fundamental principles of accident investigation, and enable the student to investigate work related accidents, determine causation, recommend corrective actions and manage the overall accident investigation and reporting process.

SFTY 5723 - Adv Field App in Petr Sfty
This course in Advanced Field Applications in Petroleum Safety will present an advanced examination of the petroleum industry to include: drilling rig safety systems and inspection techniques; gas plant operation; process safety management principles and practical application with particular emphasis on the specific health, safety and environmental issues peculiar to each area of the industry. Classroom instruction, supplemented with field trips and industry professionals presenting topics specific to their area of expertise, will be utilized to meet the course objectives. Prerequisite(s): Enrollment open to Adult and Higher Education-Training and Interdisciplinary Studies majors.

SFTY 5900 - Practicum In Safety Education
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.
SFTY 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

SFTY 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

SFTY 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

SFTY 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

SFTY 5950 - Internship In Safety Education
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

SFTY 5960 - Institute In Safety
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

SFTY 5970 - Study Tour
Credit will vary. Subject matter will vary within the department's field of study.

SFTY 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

SPEECH/LANGUAGE PATHOLOGY (SLP)
Donna Nigh Department of Advanced Professional & Special Services

SLP 5013 - Foundations Of Speech-Language Pathology
This course presents a survey of the principles, concepts and terminology fundamental to the professions of speech-language pathology and audiology.

SLP 5023 - Fluency Disorders
This course includes a detailed examination of the nature and definition of fluency disorders (stuttering and cluttering). Theories regarding etiology and their implications for evaluation and treatment of fluency disorders are studied. Procedures for the evaluation of speech fluency, diagnosis, and treatment for different age groups are examined. Prerequisite(s): SLP 4713.

SLP 5112 - Speech And Hearing Science
This course presents an advanced study of physical and physiological aspects of speech production and reception. Topics include analysis of acoustic signals and speech synthesis. Prerequisite(s): Permission required.

SLP 5232 - Communication Disorders Infant/Toddler
This course presents an in-depth examination of high-risk infant/toddler development and implications for speech-language development. Topics include information relative to defining the at-risk population incidence of high-risk infants, medical terminology specific to the population, infant communication development, assessment data, and materials. Models for parent/professional facilitation of communication skills are discussed. Prerequisite(s): Permission required.

SLP 5243 - Diagnostic Methods Speech-Language Pathology
This course presents a detailed examination of the principles and procedures in diagnosis and evaluation of communication disorders. Special reference will be made to interpretation of medical/developmental history, application of standardized tests, informal methods of evaluation, and principles of caseload selection.

SLP 5252 - Advanced Normal Language Development
This course provides a detailed description of linguistic, behavioral, cognitive and social factors in language development. Specific emphasis is placed on analysis and coding of morphologic, syntactic, semantic and pragmatic features in the language of children and adolescents. Prerequisite(s): Permission required.

SLP 5262 - Advanced Language Disorders
This course provides an in-depth study of the theoretical foundations, formal standardized tests, language sampling and analysis techniques for assessment of language disorders in children and adolescents. Topics include detailed study of various procedures for language treatment. Prerequisite(s): Written permission required.

SLP 5282 - Motor Speech Disorders
This course provides an in-depth study of the principles and procedures for assessment and treatment of articulation and phonological disorders. Evaluation and treatment of oral-motor disorders, including apraxia and dysarthria, are also examined. Prerequisite(s): Permission required.

SLP 5292 - Aphasia II
This course provides a detailed study of the procedures for evaluation and treatment of neurogenic communication disorders in adults including the aphasias, dementias, traumatic brain injury, and right-hemisphere syndrome. Prerequisite(s): SLP 5363, permission required.

SLP 5302 - Augmentative Communication
This course examines the selection, development, and use of augmentative alternative systems of communication with severely communicatively handicapped individuals. Prerequisite(s): Written permission required.

SLP 5314 - Language Disorders
This course presents a detailed study of the nature of language disorders in children and adolescents including etiologies, classification, assessment and treatment. Specific emphasis includes principles and procedures for application of standardized test instruments, language sampling and analysis, informal assessment and developing treatment strategies. Prerequisite(s): Permission required.

SLP 5323 - Voice Disorders
This course presents an in depth study of anatomy and neurophysiology of the vocal mechanism and various voice disorders. The course includes evaluation and treatment techniques for hyper- and hypofunctional disorders, neurogenic disorders and clients with laryngectomy. Prerequisite(s): Permission required.

SLP 5332 - Legal Aspects Speech-Language Pathology
This course presents a lecture series concerning the legal aspects related to the practice of Speech-Language Pathology. Topics include ethical bases of the profession and federal, state and common law requirements for both the private and public practitioner. Prerequisite(s): Permission required.

SLP 5343 - Dysphagia
This course represents a study of the etiologies, assessment, and treatment of disturbances in oral-motor functioning for speech and swallowing in children and adults. This course replaces SLP 5342. Prerequisite(s): Written permission required.
### Graduate Course Descriptions

**SLP 5352 - Cleft Palate**
This course presents an in-depth examination of the anatomy, embryology, and etiology and classification related to clefts of the lip and palate. Topics include the evaluation of the effects of cleft palate on speech and the evaluation and treatment of cleft palate speech. Prerequisite(s): Permission required.

**SLP 5363 - Aphasia I**
This course presents a detailed study of the neurological and physiological bases of neurogenic communication disorders. Topics include evaluating the motor, cognitive, and communication features associated with the aphasias, dysarthrias, and apraxia. Prerequisite(s): Permission required.

**SLP 5372 - Neuroscience In Speech Language Pathology**
This course is designed to examine the human nervous system at an advanced level with special emphasis on human communication. Terminology and conceptual tools for studying neurological structure and function of the somatosensory, visual, auditory, and motor systems are included in the examination of neuroscience. These concepts will be related to disorders of speech and language encountered by speech-language pathologists in their clinical work. Prerequisite(s): Permission required.

**SLP 5713 - Clinical Methods Speech-Language Pathology**
This course examines the clinical foundations of speech-language pathology. Principles and procedures for the evaluation and treatment of communication disorders are studied. Methods for obtaining and analyzing behavioral data for clinical and research applications are examined in detail. Prerequisite(s): SLP 4054, 4673.

**SLP 5900 - Practicum**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**SLP 5910 - Seminar / Special Topics**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**SLP 5920 - Workshop**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

**SLP 5930 - Individual Study**
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**SLP 5940 - Field Study**
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

**SLP 5950 - Internship**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**SLP 5960 - Institute**
Credit will vary from 1 to 8 hours. Subject matter will vary within the department's field of study.

**SLP 5970 - Study Tour**
Credit will vary. Subject matter will vary within the department's field of study.

**SLP 5990 - Thesis**
Credit will vary from 1 to 6 hours. Subject matter will vary within the department's field of study.

### SOCIOLOGY (SOC) Department of Sociology & Substance Abuse Studies

**SOC 5043 - Sociological Statistics**
Statistical applications in sociological research are emphasized in this course. Students learn to use traditional statistical treatments to describe sociological data. They learn to use decision-making statistics to make inferences about the relations between variables. They also learn to employ computer applications of statistical procedures in the analysis of sociological data. This course replaces SOC 5783. Prerequisite(s): Permission required.

**SOC 5053 - Sociology Of Aging**
This course is designed to acquaint students with the magnitude of the aging situation in America and to become informed about the social, psychological, economic, and political problems associated with the increasing number of people reaching retirement age in America. Prerequisite(s): 3 hours of sociology.

**SOC 5063 - Sociology of Gender**
Sociology of Gender will acquaint students with the myriad of issues related to the development of gender roles in society and the stratification related to these roles found across history and culture.

**SOC 5103 - Urban And Rural Communities**
Principles of community organization, the general attributes of communities, the special features of folk and modern city societies developed in contrast. Prerequisite(s): 9 hours of sociology.

**SOC 5233 - Human Behavior/Social Environment**
In this course, various social systems are analyzed in regard to their impact upon the quality of human life. Human development theories and research are than studied chronologically, as they relate with environmental factors to determine the human condition. For each age group, sociological, psychological, and biophysical variables are examined, as well as the impact of diversity upon human behavior and social life.

**SOC 5243 - Social Deviance**
This course defines social deviance, analyzes theories of deviance, examines social reactions to and social control of deviance, and looks at the effects of deviant identity. The above information then is applied to an understanding of several specific types of deviance, e.g., child abuse, alcoholism, suicide. Prerequisite(s): SOC 2103 and 6 hours of sociology.

**SOC 5403 - Social Ecology And Demography**
An analysis of population movements and their effects on ecological and demographic factors in the society.

**SOC 5443 - Social Stratification**
Theories of class and caste; wealth, status, and power; the American class system. Prerequisite(s): 9 hours of sociology.

**SOC 5463 - The Abused**
This course is designed to equip students preparing for work in the helping professions to identify symptoms of abuse, and other forms of trauma, and to design and carry out treatment plans specifically developed to ameliorate resultant maladaptive behavior patterns. Matters of etiology, symptomology, and treatment techniques are examined with particular emphasis on research and theory. Prerequisite(s): Graduate standing in a program in the social and behavioral sciences, or in professional helping areas, and an introductory course in chemical dependency studies.
SOC 5513 - Contemporary Social Movements
Contemporary Social Movements covers the tools for the analysis of social movements (collectivities engaged in promoting or resisting change within society).

SOC 5533 - Sociology of Death and Dying
Sociology of Death and Dying examines the structural and interactional aspects of the phenomenon of death and the process of dying in modernity. This course includes, among other things, an analysis of the highly variegated attitudes and meanings related to death rituals, body disposal, professionalization of death work, significance of bereavement and grief, the medicalization and bureaucratization of death and dying, and the role of hospitals and hospices in the management of dying.

SOC 5573 - Sociology Of Childhood/Adolescence
A study of the group phases of childhood, child welfare, and the sociological analysis of child and adolescence.

SOC 5633 - Social Welfare Policy
Social Welfare Policy will provide students with an understanding of state and federal social welfare policies and the impact they have on special populations (particularly those in poverty). In addition, students will learn the theoretical bases for social welfare policies and analyze them from economic, political, and human services perspectives.

SOC 5693 - Sociological Theory
A study of both classical and contemporary sociological theorists. Emphasis is on understanding the biographical, social, and philosophical context of theory. An understanding of how to apply various sociological perspectives is also presented. Prerequisite(s): SOC 3103 or 3633 or 4243.

SOC 5763 - Qualitative Methods
Qualitative Methods examines the collection of research strategies (methods) considered to be part of the genre of qualitative research. The primary topics in the course include, research design, research ethics, in-depth interviews, ethnography (participant observation), focus groups, and case studies. Other research strategies examined in less detail include sociometry, life histories, visual sociology, and a host of unobtrusive measures.

SOC 5773 - Sociological Research
This course teaches students a variety of research designs used in social research, e.g., experiments, quasi-experiments, and correlational designs. The merits and shortcomings of each technique are reviewed, as well as related issues such as reliability and validity, correlation vs. causation, generalizability, the relationship between theory and research, and ethical considerations. Students also learn to design and implement several research projects. The major emphasis in this course is qualitative research design, with some attention given to qualitative research procedures. Prerequisite(s): Undergraduate degree in sociology or related areas.

SOC 5900 - Practicum In Sociology
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

SOC 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

SOC 5920 - Workshop in Sociology
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of "P" or "F" is given.

SOC 5930 - Individual Study In Sociology
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

SOC 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

SOC 5950 - Internship In Sociology
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

SOC 5960 - Institute In Sociology
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

SOC 5970 - Study Tour In Sociology
Credit will vary. Subject matter will vary within the department’s field of study.

SOC 5990 - Thesis In Sociology
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

SOCIAL STUDIES (SOST)
Department of History & Geography
SOST 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

SPANISH (SPAN)
Department of Modern Languages, Literature & Cultural Studies
SPAN 5203 - Readings In Spanish Culture And Civilization
Prerequisite(s): Eighteen hours of Spanish.

SPAN 5223 - Advanced Spanish Grammar
Prerequisite(s): Eighteen hours of Spanish.

SPAN 5303 - Women Writing In Spanish America
This course provides a comprehensive overview of Spanish American literature by women writers from diverse periods and geographic regions of Central and South America, Mexico, and the Caribbean. Concepts introduced include issues influencing women’s roles in Spanish America, such as silencing, otherness, and mythical images of women leading to the formation of false identities. These notions and others are considered in relation to influential political and religious institutions often regarded as instruments of oppression. Prerequisite(s): 17 hours in Spanish and permission of the instructor.

SPAN 5403 - Contemporary Spanish American Drama
This course introduces students to Spanish American dramatic works dating from approximately 1950 to the present. Among the topics to be explored are the concepts of socially-committed theater, political oppression, dehumanization, lack of communication, and the isolation of the individual from self and society. Prerequisite(s): 17 hours of Spanish and permission of the instructor.

SPAN 5900 - Practicum In Spanish
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

SPAN 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary from within the department's field of study. May be repeated for credit up to four hours. Prerequisite(s): Eighteen hours of Spanish.
SPE D 5242 - Foundations Of Mild/Moderate Disability
The Foundations of Mild/Moderate Disabilities course is designed to teach characteristics and etiology of disabilities including learning disabilities, mental retardation, emotional disturbance, other health impairment, autism, physical disabilities, etc. and to apply this knowledge to the mild/moderate needs of students with disabilities in educational settings. In addition, case studies and a variety of interventions will be explored to analyze and determine services needed. A research component will be required. Prerequisite(s): SPED 4123.

SPE D 5252 - Foundations Of Severe/Profound Disability
The course is designed to assist students in developing proficiency in recognizing and understanding the historical, legal, and ethical history of children, preschool to secondary level, defined as needing extensive and ongoing support. The content of this course includes characteristics, roles, and interactions effects of and to friends, society and the family. Motor tic, emotional, cognitive, social, behavioral, physical, and health causes will also be explored. Prerequisite(s): SPED 4123.

SPE D 5303 - Assessment/Exceptional Individual
This lecture and application course is an in-depth examination of educational evaluation instruments and their purpose. Emphasis is on a unified team approach of differential diagnosis and treatment. State and federal Special Education assessment mandates for grades K-12 will be covered.

SPE D 5322 - Trends & Issues In Special Education
This course will address medical trends, litigation, legislation, controversial issues, curricular development and best practices in special education. It is designed to provide a means of investigation into the review of relevant research, societal changes and the impact on people included in this population. Prerequisite(s): SPED 4123 with a minimum grade of “C” or SPED 5123 with a minimum grade of “B”.

SPE D 5402 - Program Development & Administration In Special Education
This course involves the examination of the social and psychological factors involved in program organization and management in special education. Focus will be on the factors affecting the establishment and operation of services for the exceptional student. Prerequisite(s): SPED 4722.

SPE D 5432 - Attention Deficit Hyperactive Disorders
This course is designed to provide information regarding etiology and intervention techniques appropriate to assist individuals with attention deficit hyperactivity disorders. Techniques for assessment, effective research-based intervention, parent and counselor intervention will also be addressed. In addition, students will be exposed to information regarding medications and a variety of alternative treatments that have proven effective for some individuals with ADHD. Prerequisite(s): SPED 4123 with a minimum grade of “C” or SPED 5123 with a minimum grade of “B”.

SPE D 5443 - Behavioral/Classroom Management
This course is designed to provide behavioral and classroom management techniques for teacher candidates, parents, and therapists. The course emphasizes applied behavioral analysis, cognitive behavioral techniques, informal behavioral assessment, functional behavioral assessment, behavioral intervention plans, and a variety of interventions to change behaviors. Prerequisite(s): SPED 4123/5123 with a minimum grade of “B”.

SPE D 5452 - Curriculum Modification/Assistive Technology In
Special Education
This course will provide an overview of state and national requirements related to the instructional, assistive, and rehabilitation technology designed and adapted for students with disabilities. The emphasis of this course is on practical applications of technology and curriculum modification in helping students with disabilities gain independence in learning, communicating, and integrating into society together with the documentation required by the State of Oklahoma. Prerequisite(s): SPED 4123 with a minimum grade of "C".

SPED 5543 - Counseling Families Of Individuals with Disabilities
This course develops expertise in assisting families of individuals with disabilities and is designed for students pursuing professions in education, psychology, counseling, social work, and others. It will focus on the ethical issues and legal foundations needed for consultation and collaboration with parents and other professionals who provide services to individuals with disabilities. Prerequisite(s): Permission of graduate advisor.

SPED 5572 - Autism and Traumatic Brain Injury
This course provides a study of the characteristics, etiology, evaluation, and identification of individuals with autism and/or traumatic brain injury. Research-based effective educational programs, assistive technology and other resources for individuals with autism and those with traumatic brain injury (TBI) will be emphasized. Collaboration and training of parents and professionals as required for the development of an individualized educational program will be examined. Prerequisite(s): SPED 4123 or 5123.

SPED 5582 - Secondary Special Education
This course will include instruction in class organization, curriculum development and adjustment, and an introduction to methods and techniques of teaching middle and senior high school students with disabilities. Transition needs of students at this level will be emphasized along with the need for cooperation among agency and post-secondary service providers. Students may also be required to participate in a secondary field experience or service learning project. Prerequisite(s): SPED 4123.

SPED 5653 - Procedures For Mild/Moderate Learning Disabilities
This course examines the characteristics, identification, evaluation, program options, and learning needs of students who possess normal intelligence but experience difficulties in the ability to think, read, write, listen, speak, spell, and complete mathematical calculations. Prerequisite(s): SPED 4123.

SPED 5693 - Procedures For Severe/Profound Physical Health Disabilities
This course will study the academic, behavioral, emotional, and social procedures available to teach the student with severe to profound physical disabilities. Curriculum modifications will be researched pertaining to the wide range of physical and health problems of students with severe-profound physical and health disabilities. Specialized physical equipment and medical adaptations for this population will be explored in depth. Prerequisite(s): SPED 4123 or 5123.

SPED 5743 - Procedures For Mild/Moderate Emotional Behavior
A study of characteristics, problems of identification and educational programs for students with emotional disturbance and social maladjustment in public schools, day care centers, hospitals, and residential schools. Mental health principles for understanding, managing, and teaching emotionally disturbed children are included. Emphasis is placed upon the administrative provisions, theories of remediation, curriculum and materials utilized in prescriptive teaching. Prerequisite(s): SPED 4123.

SPED 5753 - Procedures For Severe/Profound Emotional/Behavior
This course is a study of teaching students with emotional/behavioral disorders in public schools, day care centers, hospitals, day treatment centers, and residential schools. Mental health principles for understanding, managing, and teaching individuals with emotional/behavioral disorders are included. Emphasis is placed upon the academic, behavioral, emotional, and social needs of this severe-profound disabilities population. Prerequisite(s): SPED 4123 or 5123.

SPED 5763 - Procedures For Mild/Moderate ID
This course is a study of the characteristics, causes and academic, social, cultural, emotional interventions for students with mild-moderate intellectual disabilities. It will include a study of the classification, ideology, legal regulations, and classroom procedures that are implemented to improve the lives of students classified as mildly intellectually delayed. Emphasis is placed upon IEP development, Para Educator training, cultural aspects, organizational skills, time-management, and self-advocacy, as well as methods and techniques. Prerequisite(s): SPED 4123.

SPED 5773 - Procedures For Severe/Profound Mental Retardation
This course will study the application of classification, assessment, ideology, and characteristics of students with severe-profound/mental retardation, Biochemical, psychological, and socio-educational aspects are considered. Emphasis is placed upon classroom organization, curriculum adjustments and methods and techniques of teaching students with mental retardation at severe-profound levels. Prerequisite(s): SPED 4123 or 5123.

SPED 5842 - Curriculum Development Mild/Moderate Disability
The course is designed to teach skills necessary to design a program for students functioning at mild/moderate levels of Emotional/Behavioral Disorder, Learning Disabled, and Mental Retardation, and Early Childhood Development Delays. It will present strategies Teaching Model and Priority Academic Student Skills Core Curriculum, counseling techniques, transition programs, and parent involvement training/behavior management programs will be explored to meet specific needs of Oklahoma School Districts. Collaboration and communication strategies will also be explored. Prerequisite(s): SPED 4123 or 5123.

SPED 5852 - Curriculum Development Severe/Profound Disability
This course will cover in detail integrated instructional settings, family interactions IEP, IFSP development, collaborative planning, effective behavioral supports, related services, functional independent living skills acquisition, cultural issues for children preschool to adulthood, who are taught in the public schools. A curriculum will be developed that is functional, relevant, and implemental. Prerequisite(s): SPED 4123 or 5123.

SPED 5900 - Practicum In Special Education
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

SPED 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

SPED 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

SPED 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.
SPED 5940 - Field Study
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

SPED 5950 - Internship
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

SPED 5960 - Institute In Special Education
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

SPED 5970 - Study Tour
Credit will vary. Subject matter will vary within the department’s field of study.

SPED 5990 - Thesis
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

STATISTICS (STAT)
Department of Mathematics and Statistics

STAT 5103 - Applied Experimental Design
Topics for this course include basic concepts of experiments and experimental error, analysis of variance of one-, two-, and three-way classifications, and nonparametric statistics. Prerequisite(s): STAT 2113 with a minimum grade of “C”.

STAT 5123 - Mathematical Statistics 2
This course builds upon the foundation of probability begun in Mathematical Statistics 1, and continues the study of the theory and application of Probability and Statistics, with the emphasis placed on Statistics. The course includes the study of the distributions of functions of random variables, sampling distributions, properties of estimators including efficiency and the Cramer-Rao Inequality, consistency, sufficiency, and maximum likelihood methods. Other course topics include the theory and application of confidence interval estimation, hypothesis testing and the Neyman-Pearson Lemma. Successful completion of Mathematical Statistics 2 provides the student with the necessary requisites and background to enter more advanced and specialized courses in Statistics, as well as other academic fields. Prerequisite(s): STAT 4113 with a minimum grade of “C”.

STAT 5213 - Applied Regression Analysis
Topics for this course will include multiple regression, logistic regression, survival analysis, proportional hazard models, and time series analysis. Data will be analyzed using SAS. Prerequisite(s): STAT 2113 with a minimum grade of “C”.

STAT 5253 - Quality Control
Topics in this course include random samples, frequency distributions of sample data, sampling distributions, sampling acceptance plans, rectifying inspection, and the general theory of control charts. Prerequisite(s): STAT 4113 or 5113 and 4303.

STAT 5263 - Computer Applications in Statistics
This course will include programming techniques, data organization, selection and interpretation of statistical tests as applied to SPSS (Statistical Package for Social Studies). Prerequisite(s): STAT 2113 with a minimum grade of C.

STAT 5303 - Non-Parametric Statistics
Topics in this course include distribution-free statistics, techniques of hypothesis testing with data drawn from a population that is not distributed in a particular manner, the binomial test, the sign test, the median test, and the Cochran Q test. Prerequisite(s): STAT 2113 with a minimum grade of “C”.

STAT 5353 - Probability Theory
This course provides the student with a thorough treatment of the mathematical structure and application of probability. Topics include principles of combinatorics, the fundamentals of probability, conditional probability and independence, random variables, mathematical expectation, the Weak and Strong Laws of Large Numbers, and the Central Limit Theorem. Emphasis will be placed upon building a strong foundation for the more advanced study of probability and statistics. Prerequisite(s): STAT 4113.

STAT 5423 - Data Fitting
Topics in this course include fitting data to a linear equation, a polynomial, an orthogonal polynomial, and an exponential growth curve. Piecewise polynomial fitting will also be discussed. Prerequisite(s): CMSC 1613 and STAT 2113 with a minimum grade of “C”.

STAT 5513 - Statistical Consulting
In this course, students will provide statistical consulting services to clients from the community. Students will be working on-site, meeting with the clients, developing statistical questions, and collecting data. They will then analyze the data and prepare both written and oral reports to be given to the clients. Prerequisite(s): STAT 5103 or STAT 5213 or STAT 5263 or STAT 5303.

STAT 5533 - Data Mining & Stat Learning
This course will expose students to modern data analysis techniques for regression, classification, and unsupervised learning. Students will apply machine learning algorithms to real-world data using the R programming language. Selected topics include: penalized regression, regression splines, decision trees, support vector machines, principal components analysis, and clustering. Prerequisite(s): STAT 4213 or STAT 5213 each with a minimum grade of “C” or permission of the instructor.

STAT 5900 - Practicum In Statistics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

STAT 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

STAT 5920 - Workshop in Statistics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

STAT 5930 - Individual Study In Statistics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

STAT 5940 - Field Study In Statistics
Credit will vary from 1 to 9 hours. Subject matter will vary within the department’s field of study.

STAT 5950 - Internship In Statistics
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.
TEACHING ENGLISH AS A SECOND LANGUAGE (TESL)

Department of Curriculum and Instruction

TESL 5123 - Foundations Of Bilingual/Multicultural Education
This course provides an overview of the history, philosophy and theoretical framework of bilingual/multicultural education, including the legal aspects of federal and state involvement. The purpose, instructional models, and populations served by bilingual education will be examined. Upon completion students will be able to discuss the issues concerning the development, the effectiveness, current trends, and future projections for bilingual/multicultural education programs in the U.S. Students will also develop a personal educational philosophy regarding cultural and linguistic diversity.

TESL 5133 - One- & Two-Way Language Immersion
This course is designed to provide knowledge of current trends, methods, strategies and resources related to instructional issues and practices in one-way and two-way language immersion programs. Upon completion, students will demonstrate proficiency in designing and adapting materials for immersion classrooms, and planning and implementing instruction that promotes additive bilingual proficiency across the curriculum. Prerequisite(s): permission required.

TESL 5143 - Teaching Reading To English Language Learners
This course will examine the basic considerations for teaching reading to limited English speakers. Topics will include: the role and importance of literacy, assessment, readiness, language comprehension/skills development, and instructional materials, strategies and resources.

TESL 5163 - ESL In Content Areas
This course will provide a rationale for cultural and linguistic considerations in content area instruction for students who are limited English proficient. Different approaches and specific techniques for teaching English as a second language in content areas will be examined, specifically in social studies, science, and math. Upon completion, students will demonstrate an ability to design curriculum which integrate content area processes and ESL methodology.

TESL 5212 - Cultural/Linguistic Diversity In Schools
This course will examine the influence of culture and language on individual learning styles, behavior patterns and understanding of academic content. Theoretical and practical considerations for synthesizing multicultural curriculum design with language and concept development will be explored. Upon completion students will be able to utilize techniques and strategies that promote cross-cultural awareness and understanding and academic achievement for all students in multilingual, multicultural classrooms.

TESL 5313 - Testing/Evaluation In The Bilingual/ESL Classroom
This course will examine the issues and concerns of language and achievement assessment in bilingual education and English as a second language programs. Various standardized test will be reviewed and analyzed. Principles and techniques of teacher-made test construction will be studied and applied in the development of an original assessment instrument. Upon completion students will prepare a professional quality assessment profile of an English language learner. Prerequisite(s): A minimum of 3 hours of TESL coursework.

TESL 5413 - Language Structure For ESL Teachers
This course provides practical as well as theoretical information related to the fundamentals of the structure of language as it pertains to the teaching and learning of English language learners in the school setting. Students will be able to apply their understanding of the underlying processes of the ability to produce and interpret oral and written language by developing and analyzing teaching strategies and materials for second language learners.

TESL 5522 - Integrating Technology for English Language Learners
Integrating Technology for English Language Learners examines the potential role of microcomputers, the internet, and other contemporary technologies in the effective planning and delivery of 21st century curriculum. Primary emphasis is placed upon the appropriate use of technology to facilitate learning for English language learners.

TESL 5763 - Second Language Acquisition
This course will provide an extensive review of research and literature in the field of second language acquisition. Students will examine the developmental nature of second language proficiency and the various factors that influence the process.

TESL 5783 - Teaching English as Second Language
This course provides the theoretical and practical foundations for teaching English as a second language. Upon completion, students will demonstrate a proficiency in utilizing ESL methodology, managing an ESL classroom and in developing and adapting supplementary materials for ESL instruction.

TESL 5883 - Teachers as Researchers
This course examines action research, an approach to research involving self-reflective, systematic inquiry by education practitioners for the purpose of studying and improving their own practice. Identification of problems to investigate, research design, data collection, data analysis, data interpretation and technical writing are presented. The ethics of action research with human subjects is addressed. Students plan and implement a practice-based action research project and report on the outcomes of their study. Students writing a thesis will complete the thesis proposal in place of the action research. Prerequisite(s): TESL 5763 and PTE 5013.

TESL 5990 - Practicum
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

TESL 5910 - Seminar / Special Topics
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

TESL 5920 - Workshop
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

TESL 5930 - Individual Study
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.
**THRT 5920 - Workshop**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**THRT 5930 - Individual Study**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**THRT 5940 - Field Study In Theatre Arts**  
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

**THRT 5950 - Internship In Theatre Arts**  
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**THRT 5960 - Institute In Theatre Arts**  
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**THRT 5970 - Study Tour**  
Credit will vary. Subject matter will vary within the department’s field of study.

**THRT 5990 - Thesis**  
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

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**THEATRE ARTS (THRT)  
Department of Theatre Arts**

**THRT 5213 - Shakespeare on Film**  
This course will guide students in exploring how Shakespeare’s plays have been adapted for film using both early cinematic techniques and modern technology. Reading a number of Shakespeare’s plays and viewing movie interpretations will serve as a base for analysis, lectures, discussion and an in-depth research project and oral presentation. Prerequisite(s): Graduate standing.

**THRT 5303 - Global Theatre**  
This course surveys the theatrical traditions of global theatre in a variety of forms including realistic and non-realistic performances. The theatrical arts of various countries will be studied not only for their intrinsic value, but as key to understanding the cultural components which compose our global world. Prerequisite(s): Graduate standing.

**THRT 5353 - History Of Theatre Beginning -1660**  
This course provides the student with a comprehensive survey of the development, important issues, prominent artists, and pivotal events in the history of the theatre from its beginning to 1660. Students will conduct independent exploration into selected aspects of theatrical development. Prerequisite(s): Graduate standing.

**THRT 5363 - History Of Theatre 1660-Present**  
This course provides the student with a comprehensive survey of the development, important issues, prominent artists, and pivotal events in the history of the Theatre from 1660 until present. Students will conduct independent exploration into selected aspects of theatrical development. Prerequisite(s): Graduate standing.

**THRT 5713 - Play Production**  
This course is a study of the techniques and philosophies of directing plays in the contemporary theatre and emphasizes actual practice through the preparation and presentation of scenes from modern and classic plays, producing and directing a short play and preparing in-depth studies of modern professional theatre directors. Prerequisite(s): Graduate standing.

**THRT 5900 - Practicum In Theatre Arts**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**THRT 5920 - Workshop**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given.

**THRT 5930 - Individual Study**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department's field of study.

**THRT 5940 - Field Study In Theatre Arts**  
Credit will vary from 1 to 9 hours. Subject matter will vary within the department's field of study.

**THRT 5950 - Internship In Theatre Arts**  
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**THRT 5960 - Institute In Theatre Arts**  
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**THRT 5970 - Study Tour**  
Credit will vary. Subject matter will vary within the department’s field of study.

**THRT 5990 - Thesis**  
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.

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**UNIVERSITY COURSES (UNIV)  
University Courses**

**UNIV 5000 - Workshop**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study. Normally involves lecture, films, guest speaker, etc. A grade of “P” or “F” is given. No more than 2 hours of workshop may be counted on a master’s degree.

**UNIV 5900 - Practicum**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**UNIV 5910 - Seminar / Special Topics**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**UNIV 5930 - Individual Study**  
Credit will vary from 1 to 4 hours. Subject matter will vary within the department’s field of study.

**UNIV 5950 - Internship**  
Credit will vary from 1 to 8 hours; subject matter will vary within the department’s field of study. Supervised practical experience gained in a professional field by an advanced or graduate student.

**UNIV 5960 - Institute**  
Credit will vary from 1 to 8 hours. Subject matter will vary within the department’s field of study.

**UNIV 5970 - Study Tour**  
Credit will vary. Subject matter will vary within the department’s field of study.

**UNIV 5980 - Study Abroad: Place Holding**  
Temporary course associated with study abroad college coursework. Allows a student to be recognized as enrolled. These courses are replaced by approved articulated academic courses once the study abroad experience has ended and the appropriate records have been received by the UCO Registrar’s office. Student pays tuition and fees at UCO.

**UNIV 5990 - Thesis**  
Credit will vary from 1 to 6 hours. Subject matter will vary within the department’s field of study.  

ZZZZ 5910 - Holding course for fixing CRNs