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**ACCOUNTING**

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- ACT 6625, 6626, 6627 Specialized Study in the Area of Accounting (1-3)**  
Study of problem or problems using research techniques. Selection of the problem must be approved by the student's adviser, instructor under whom the study is to be made, and the appropriate dean or branch director. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in the General Regulations section.
- ACT 6691 Managerial Accounting (3)**  
A study of sources and classifications of accounting data, classification and behavior of revenues and costs, use of accounting data for profit planning and cost control, and use of accounting data for special analysis.  
*Prerequisite: BUS 5502 or equivalent.*
- ACT 6692 Advanced Accounting Problems (3)**  
A consideration of problems relating to pension plans, long-term leasing arrangements, refunding of bonds payable, stock options, allocation of income taxes, changing price levels, cash flow statements, and other financial accounting topics with emphasis on relevant pronouncements by professional

**ADE 6608 Curriculum Integration of Technology (3)**

The purpose of this course is to prepare students to apply knowledge and competency in instructional technologies in relation to curriculum design, diverse models, and teaching situations at all developmental



- BIO 5533 Embryology (3)**  
A study of embryonic development of vertebrates. This course links cellular and molecular mechanisms to morphogenesis. *Prerequisites: Genetics, Cell Biology, Organic Chemistry. Co-requisite: BIO L533*
- BIO L533 Embryology Lab (1)**  
A study of embryonic development of vertebrates as illustrated by the frog, chick, and pig. Lab includes experimental investigations of developing systems. *Co-requisite: BIO 5533*
- BIO 5545 Ichthyology (3)**  
This course covers the morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of fishes. *Prerequisites: General Biology, General Ecology. Co-requisite: BIO L545*
- BIO L545 Ichthyology Lab (1)**  
A study of the structural features, identification, and classification of freshwater and marine fishes. *Co-requisite: BIO 5545*
- BIO 5546 Herpetology (3)**  
A study of the morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of amphibians and reptiles. *Prerequisites: General Biology, General Ecology. Co-requisite: BIO L546*
- BIO L546 Herpetology Lab (1)**  
A study of the structural features, identification, and classification of amphibians and reptiles. *Co-requisite: BIO 5546*
- BIO 5547 Ornithology (3)**  
A study of the morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of birds. *Prerequisites: General Biology, General Ecology. Co-requisite: BIO L547*
- BIO L547 Ornithology Lab (1)**  
A study of the structural features, identification, and classification of birds. *Co-requisite: BIO 5547*
- BIO 5548 Mammalogy (3)**  
A study of the morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of mammals. *Prerequisites: general biology, general ecology. Co-requisite: BIO L548*
- BIO L548 Mammalogy Lab (1)**  
A study of the structural features, identification, and classification of mammals. *Co-requisite: BIO 5548*
- BIO 5551 Toxicology (3)**  
A study of the principles related to the adverse effects of chemicals on living organisms. *Prerequisite: Organic Chemistry. Co-requisite: BIO L551*
- BIO L551 Toxicology Lab (1)**  
An assessment of terrestrial and aquatic toxicity of chemical agents following standard protocols. *Co-requisite: BIO 5551*
- BIO 5571 Parasitology (3)**  
This course covers the taxonomy, structure, life histories, distribution, pathogenesis, and control of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance. *Prerequisites: Any 3000-level BIO lecture and lab. Co-requisite: BIO L571*
- BIO L571 Parasitology Lab (1)**  
A laboratory study of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance. *Co-requisite: BIO 5571*
- BIO 5552 Industrial Hygiene (3)**  
Identification and correction of chemical, biological, and physical hazards in and around the workplace. *Prerequisite: Organic Chemistry. Co-requisite: BIO L552*
- BIO L552 Industrial Hygiene Lab (1)**  
Methods and procedures for T1 workplace. 0.0016 ( )Tjce.

- 5582 Molecular Biology (3)**  
The study of the fundamental principles of chromosomal organization and gene expression, with emphasis on the structure and function of nucleic acids and proteins.  
*Prerequisites: Genetics, Microbiology, Organic Chemistry. Co-requisite: BIO L582*
- BIO L582 Molecular Biology Lab (1)**  
Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings.  
*Co-requisite: BIO 5582*
- BIO 5592 Guided Independent Research (1-4 credit hours per course per semester)**  
Additional information is indexed under "Guided Independent Research and Study."
- BIO 5594 Guided Independent Study (1-4 credit hours per course per semester)**  
Additional information is indexed under "Guided Independent Research and Study."
- BIO 6600 Aquatic Entomology (3)**  
A study of the morphology, physiology, taxonomy, life histories, and ecology of aquatic insects. *Prerequisites: General Biology, General Ecology. Co-requisite: BIO L600*
- BIO L600 Aquatic Entomology Lab (1)**  
Classification and identification of immature and adult aquatic insects. A collection is required. *Co-requisite: BIO 6600*
- BIO 6601 Environmental and Biological Ethics (3)**  
Examination of major ethical theories as they apply to environmental, biological, and medical issues. The linkage of ethics to decision-making in social, public, and business policy. Course develops skills in understanding value systems and framing ethical positions.
- BIO 6603 Environmental Management (3)**  
Concepts and practices underlying procedures for environmental resource management, including planning, organizing, and conducting programs.
- BIO 6602 Human Pathophysiology (3)**  
This course covers the structural and functional changes in tissues and organs of the human body which cause or are caused by disease. *Prerequisites: Human Anatomy & Physiology, Histology, or permission of instructor. Co-requisite: BIO L602*
- BIO L602 Human Pathophysiology Lab (1)**  
A study of the microscopic anatomy of normal and diseased tissues and organs.  
*Co-requisite: BIO 6602*
- BIO 6606 Economic Botany (3)**  
This course covers plants of importance

**BIO 6625, 6626 Specialized Study in Biology (1-4)**

statistics, and a budget. *Prerequisite: Three semester hours in probability and statistics or permission of instructor.* A grade of "B" or better is required.

- BIO 6695 Thesis Research (1- 6)**  
Under the guidance of the student's adviser and the chair of the department, the student may pursue original research (independent acquisition and interpretation of data) in a particular area of environmental or biological science. The completion of a thesis is required. The results and conclusions must be successfully defended before the student's graduate committee.

## **BUSINESS**

- CHM L552 Physical Chemistry I Laboratory (1)**  
 An introduction to methods and techniques used in the physical chemistry laboratory, including experiments in calorimetry, phase equilibria, reaction kinetics, and transport properties. *Co-requisite: CHM 5552*
- CHM 5553 Physical Chemistry II (3)**  
 A continuation of CHM 5552 with an introduction to surface phenomena, quantum chemistry, and spectroscopy with an emphasis on properties of surfaces, atomic and molecular structure, molecular orbital theory, and photochemistry. *Prerequisite CHM 5552*
- CHM L553 Physical Chemistry II Laboratory (1)**  
 A continuation of CHM L552 with an introduction to methods and techniques in computational chemistry and spectroscopy. *Co-requisite or prerequisite: CHM 5553*
- CHM 6625, 6626, 6627 Specialized Study in Area of Chemistry (1-4)**  
 A study of a problem or problems using research techniques. Selection of problem must be approved by the professor under whom the study is to be made and the Dean of Arts and Sciences. The study should contribute to the student's program. Preparation of a scholarly paper is required and may involve oral defense. Total credit for any combination of enrollments in these courses may not exceed four semester hours. A Specialized Study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.

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**CRIMINAL JUSTICE**

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- CJ 5571 Probation, Pardons, and Parole (3)**  
 This course focuses on the historical developments, philosophies and standards related to the process of probation, pardon, and parole. This course will investigate the use

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CJ	6638	<p><b>Seminar in Civil Liberties Related to Corrections (3)</b> This course is concerned with prisoners' rights as they are guaranteed by the United States judicial system. Because of the ongoing nature of the process defining rights of prisoners currently, decisions of federal appellate and district courts as well as state courts are utilized. This course is a critical review of recent trends and developments affecting personal liberties of incarcerated individuals.</p>	CJ	6671	<p><b>Organization Theory (3)</b> An examination of the theories of modern criminal justice organization, including current trends and development.</p>
CJ	6640	<p><b>Seminar in Law Enforcement (3)</b> An in-depth examination of the various issues and problems currently being experienced in American policing.</p>	CJ	6692	<p><b>Agency Experience (3)</b> A supervised practice in an approved criminal justice agency. Reserved for students with no prior experience in a criminal justice setting.</p>
CJ	6644	<p><b>Administrative Law (3)</b> A study of the legal environment in which the public administrator functions. The process and procedures of administrative agencies including administrative discretion, rule-making, investigating, prosecuting, negotiating, and settling; constitutional law, statutory law, common law, and agency-made law. Liability of governments and their officers. Selected cases and decisions.</p>	CJ	6693	<p><b>Master's Project (3)</b> An applied professional research project involving the analysis of a management or public policy problem, designed for the student who does not wish to write a thesis but nonetheless desires to prepare a major written work in the field of criminal justice.</p>
CJ	6649	<p><b>Statistics for Criminal Justice Research (3)</b> This course provides a review of advanced statistical techniques with emphasis upon their application in a criminal justice setting.</p>	CJ	6694	<p><b>Thesis Practicum (3)</b> This course is designed to offer the student who elects to write a thesis an opportunity to review research strategies, initiate a literature search, and prepare preliminary drafts of the thesis. The student will receive a letter grade of "CR" until he/she has completed the thesis.</p>
CJ	6650	<p><b>Survey of Research Methods in Criminal Justice (3)</b> An analysis of research strategies employed to study the causes of crime and the societal response to it. (A grade of "B" or better is required.)</p>	CJ	6695	<p><b>Thesis (3)</b> The completion and oral defense of the thesis.</p>
CJ	6652	<p><b>Seminar in Corrections (3)</b> An in-depth examination of the various issues and problems in corrections with a special emphasis relating to administration and management.</p>	<p><b>COMMUNICATION STUDIES</b></p>		
CJ	6655	<p><b>Selected Topics in Criminal Justice (3)</b> An examination of a particular subject which is not offered under the normal course offerings. May be repeated (with different topics) for credit. See semester hour limits listed under Course Restrictions in General Regulations section.</p>	COM	5531	<p><b>Interpersonal Communication (3)</b> A study of theories of Communication behavior in relatively unstructured face-to-face situations, including small-group discussion.</p>
CJ	6660	<p><b>Advanced Readings in Criminal Justice (3)</b> This course is designed to allow beginning graduate students the opportunity to acquire a basic background in criminal justice literature. The readings will be in specific areas in criminal justice. May be repeated (with different topics) for credit. See semester hour limits listed under Course Restrictions in General Regulations section.</p>	COM	5541	<p><b>Oral Interpretation (3)</b> A study and application of the principles and practices of oral interpretation (reading) of literature, including individual and ensemble performance.</p>
			COM	5542	<p><b>Rhetoric (3)</b> A study of the historical development of rhetorical theory in Western thought from the Classical to the Contemporary periods and its relationship to practice and criticism. The course includes opportunities for advanced public speaking and small group discussion.</p>
			COM	6625, 6626, 6627	<p><b>Specialized Study in Area of Speech Communication (1-3)</b> <b>(Total specialized study hours may not exceed six semester hours)</b> Under the supervision of the faculty course supervisor, the student may pursue an extensive study of a particular area which fits his/her academic needs but is not available in the regular curriculum. Each proposal must be approved the preceding term by adviser,</p>



- CP 6637 Administration of Student Affairs Programs (3)**  
This course is designed to provide the knowledge and skills required for effective administration of student affairs in higher education. The course will focus on designing, managing, and evaluating student affairs programs.
- CP 6638 Internship: Student Affairs Counseling**

**CP 6658 Internship: School Counseling (3)**  
This course provides supervised school-based experience at both the elementary and secondary levels. The school based experience will be accompanied by scheduled on campus supervision with the university supervisor. Internship equals 300 clock hours, to include 120 hours of direct student service. *Prerequisite: CP 6657*

**CP 6659 Internship: Mental Health (3)**  
This course provides an opportunity for the student to perform under supervision a variety of activities that a regularly employed professional counselor in an agency setting would be expected to perform. Experiences are accompanied by regularly scheduled, weekly group supervision. Course equals 300 hours of internship. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Prerequisite: Completion of CP 6650 and adviser approval.*

**CP 6660 Internship: Mental Health (3)**  
This course provides an opportunity for the

From 1000.0000 to 1097.1500 (This course provides an opportunity for the student to perform under supervision a variety of activities that a regularly employed professional counselor in an agency setting would be expected to perform. Experiences are accompanied by regularly scheduled, weekly group supervision. Course equals 300 hours of internship. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. Prerequisite: Completion of CP 6650 and adviser approval.)

- CP 6682 Leadership and Advocacy: Hearing Impairment (3)**  
The purpose of this course is to develop an appreciation for the organization, administration, and coordination of services for the hearing impaired. Strategies for consulting with various agencies, educating the general public, counseling with hearing impaired and their families as well as approaches for advocating for these populations will be explored. *Prerequisites: CP 6650, CP 6652, PSY 6653. Taken in conjunction with internship.*
- CP 6683 Leadership and Advocacy: Visual Impairment (3)**  
The purpose of this course is to develop an appreciation for the organization, administration and coordination of services for the visually impaired. Strategies for consulting with various agencies, educating the general public, counseling with the visually impaired and their families as well as approaches for advocating for these populations will be explored. *Prerequisites: CP 6650, CP 6652, PSY 6653. Taken in conjunction with internship.*
- CP 6685 Case Management (3)**  
A study of the case management process, including case findings, service coordination, referral and utilization of other disciplines, and client advocacy.
- CP 6686 Job Development and Placement (3)**  
A study of the analysis of job development and placement in the rehabilitation process and related fields.
- CP 6687 Placement of Special Disability Groups (3)**  
A study of effective job development and placement techniques and strategies in the rehabilitation process for disability groups traditionally challenging to place: Blind, Deaf, Hard of Hearing, Mentally Ill, Traumatic Brain Injured, Spinal Cord Injured, Multi-disabled and Learning Disabled.
- CP 6691 Research Methodology (3)**  
The study and evaluation of research methods commonly used in the social sciences. The course will provide information necessary to understand and apply research processes, synthesize knowledge and writing, and plan and organize research problems for interpretation and application of research results. Application of these skills in the form of a written project using the Publication Manual of the American Psychological Association (APA) is required. A grade of "B" or better is required.
- CP 7700 Advanced Practicum in Group Leadership (3)**  
Supervised training in group leadership, including experiential and didactic activities, focusing on group facilitation. *Prerequisites: CP 6642 and CP 6650 or equivalents and permission of the instructor. Enrollment restricted to Ed.S. students..*

<b>COMPUTER SCIENCE</b>			
<b>CS</b>	<p><b>5543 Software Engineering (3)</b> This course aims at producing good practice in developing software and provides an overview of how to do software engineering using an object-oriented approach. The course assumes familiarity with object-oriented programming. It focuses on the appropriate processes, models and metrics in quality software development. <i>Prerequisite: CS 4446 or CS 5547</i></p>	<b>CS</b>	<p><b>6625, 6626, 6627 Specialized Study in Computer Science (1-3)</b> This course involves the study of a problem or problems using research techniques. Selection of a problem is to be approved by the student's advisor, instructor, college dean, and Dean of the Graduate School. The study should contribute to a student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in the specialized study courses may not exceed three (3) semester hours. The course may not be substituted for a required course. See semester hour limits listed under Course Restrictions in General Regulations</p>
<b>CS</b>	<p><b>5545 Computer Architecture (3)</b> Functional descriptions of the major components of digital computer architectures are explored, explored, such as arithmetic and control units, memory hierarchies, channels and characterizations and interactions of individual major components of small and large computers. Also included are mini-computer architectures, specialized computer architectures, and distributed data processing architectures. <i>Prerequisite: CS 3357, CS 3365 or CS 4445</i></p>	<b>CS</b>	<p><b>6640 Data Base Management Concepts (3)</b> This course discusses design and implementation issues associated with relational and object-oriented databases. Topics include E-R modeling, relational modeling, normal forms, data storage, and concepts of object-oriented data modeling. <i>Prerequisite: CS 3323</i> section.</p>
<b>CS</b>	<p><b>5547 Systems Analysis and Design 3</b> Introduction to information systems development process. Systems analysis methods, covering activities, tools, and techniques for requirements gathering, modeling and specification. Systems design methods, including activities, tools and techniques for design, with an emphasis on architecture, rapid development and prototyping, and detailed design. Introduces classical approaches such as information engineering as well as object-oriented analysis and design. (CS 4446 recommended)</p>	<b>CS</b>	<p><b>6641 Society and Information Systems (3)</b> A survey and analysis of individual and societal attitudes, interactions, and decision-making is provided concerning the design and application of computers in information storage, retrieval and processing.</p>
<b>CS</b>	<p><b>5549 Analysis of Algorithms (3)</b> This course discusses various algorithms that solve searching, sorting, and cryptographic problems. There are many candidate algorithms to solve such problems. Tradeoffs involved when choosing an algorithm are discussed. Sorting algorithms such as merge, insertion, quick, and heap, search algorithms such as binary search tree, red-black tree, hashing, and B-Trees are discussed. <i>Prerequisite: CS 3323</i></p>	<b>CS</b>	<p><b>6643 Theory and Design of Compilers (3)</b> The formal properties of grammars, lexical and syntactic analysis, macro generators, and code selection are presented. Additional topics include hardware compilers, extensibility of languages, and implementation of simple compilers. <i>Prerequisite: CS 3343 or 3370</i></p>
<b>CS</b>	<p><b>5550 Operating Systems Principles (3)</b> This course discusses what operating systems are, what they do, how they are designed and organized. Topics discussed include: process management (scheduling, intercommunication, synchronization, and deadlock handling), storage management (memory management and virtual memory management). I/O systems (hardware, interfaces, request-handling, performance issues). Applications of these concepts in modern operating systems such as Windows and Unix are presented. <i>Prerequisite: CS 3323</i></p>	<b>CS</b>	<p><b>6646 Information Systems for Operations and Management (3)</b> Conceptual and practical foundations of information processing systems' support for management and decision-making functions are examined. Computer system project management, economic and legal considerations of management information systems, systems implementation and evaluation are additional topic areas covered in this course. <i>Prerequisite: CS 5547</i></p>
		<b>CS</b>	<p><b>6647 Simulation and Modeling (3)</b> The theory and design of modeling problems, validation and verification of simulation models for dynamic queuing and static Monte Carlo problems are reviewed. Discrete event and continuous simulation models are analyzed. Random number generation used in simulation languages and the implementation of models on computer hardware and software engineering using</p>



— concepts of space compression and time compression. Aliasing probability. Fault signature analysis. Fault simulation. Deterministic and pseudorandom test pattern generator. FAN and PODEM. Scan path design. Functional testing of LSI and VLSI circuits—testing microprocessors. Testing of memory devices. Recent trends— embedded systems and systems-on-chip (SOC) design and circuits. Fault tolerance and reliability in modern digital design. *Prerequisite: CS 6655*

- CS 6699 Research and Thesis (1-6)**  
 Guided research in Computer Science results in the preparation of a scholarly thesis. The thesis includes a discussion of the research design and methodology available to plan and conduct a systematic, thorough, critical, interpretive and analytical research in an area appropriate to the interest of the individual student and consistent with the degree program. The course requires students to prepare a thesis within guidelines provided by the faculty member and to defend it before a thesis committee.

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**DRAMA**

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- DRA 5543 Theatre History I (3)**  
 A history of the theatre from the origin of tragedy through English drama of the 17th century. A study of dramatic literature and elements of the theatre designed to enhance the student's appreciation of contemporary theatrical practices in the staging of the "classics".
- DRA 5551 Directing I (3)**  
 Script analysis and directing principles with studies in the direction of contemporary scenes one-act plays.
- DRA 6625 Specialized Study in Area of Theatre (1-3)**  
 Under the supervision of the faculty course supervisor, the student may pursue an intensive study of a particular area which fits his/her academic needs but is not available in the regular curriculum. Each proposal must be approved the preceding term by the student's advisor, the faculty course supervisor, and the department chair person.



- EBS 5530 Applied Genetics (3)**  
Advanced studies in genetics with emphasis on cytogenetics and molecular genetics. *Prerequisites: Genetics, Organic Chemistry. Co-requisite: EBS L530*
- EBS L530 Applied Genetics Lab (1)**  
An introduction to procedures and equipment used in the study of cytogenetics and molecular genetics. *Co-requisite: EBS 5530*
- EBS 5550 Environmental History of the U.S. (3)**  
An introduction to environmental history of the United States from the 18<sup>th</sup> century to the late 20<sup>th</sup> century, emphasizing the post World War II period. The course will focus on the historical development of the science of ecology, the origins of environmental problems and solutions attempted by government and experts, as well as responses by grassroots activists over time.
- EBS 5551 Toxicology (3)**  
A study of the principles related to the adverse effects of chemicals on living organisms. *Prerequisite: organic chemistry. Co-requisite: EBS L551*
- EBS L551 Toxicology Lab (1)**  
Assessment of terrestrial and aquatic toxicity of chemical agents following standard protocols. *Co-requisite: EBS 5551*
- EBS 5552 Industrial Hygiene (3)**

COURSE DESCRIPTIONS - 200

**EBS 6615 Environmental Law, Permitting, and Regulatory Compliance (3)**

**EBS 6650 Spatial Analysis Using Geographical Information Systems (3)**

COURSE DESCRIPTIONS - 202

- ECD 6660 Theories of International Economic Development (3)**  
This introductory course offers an interdisciplinary approach to economic development theory and bridges theory with “real world” economic development active ties through case examples.
- ECD 6661 Economic Development Finance (3)**  
This course prepares students in the fundamental concepts and methods of economic development finance.
- ECD 6662 Applied Spatial Analysis for International Economic Development (3)**  
This course prepares students to conduct economic development-related research through the application of computerized mapping software. *Prerequisite: ECD 6660*
- ECD 6680 Field Experience in International Economic Development (3)**  
This course integrates academic knowledge with practical skills to develop professional abilities through economic development fieldwork. *Prerequisites: ECD 6660 and ECD 6661*
- ECD 6699 Seminar in International Economic Development: U.S. Entrepreneurship Policy (3)**  
This course examines current issues in applied international economic development concepts.

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**EARLY CHILDHOOD EDUCATION**

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- ECE 5544 Internship Seminar (3)**  
This course provides interns an opportunity to develop analytical thinking skills through examining broad educational issues and concerns, topics on the state and local levels, and those of personal inter

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needs of gifted learners and the cognitive, affective, social, and aesthetic areas of curriculum experiences. *Prerequisites: EDG 6666 Nature and Needs of Gifted Individuals, EDG 6667 Creativity, and EDG 6668 Integrating Thinking Skills into the Curriculum.*

**EDG 6670 Special Populations of Gifted Students (3)**  
This course examines ways in which teachers can identify and plan for gifted children





- EDU 6656 Teaching the Bilingual Child (3)**  
This course prepares teachers to make classroom and instructional accommodations to meet the needs of the bilingual child. It also addresses facilitating home-school partnerships with families of bilingual children.
- EDU 6658 Understanding Cultural Diversity (3)**  
Understanding of culturally different studies, the psychological and sociological factors that influence the counseling, teaching or training, and the employment of the culturally different. Special emphasis is placed on current practices utilized in overcoming the deficiencies in school, home, and work settings.
- EDU 6665 Field Project (3)**  
The content of this course is variable, depending on student interests. The determination of the course content for each student will be made through collaboration between the student, the student's adviser, and the Instructor. Students may focus on supervised teaching, action research, or a project with a P-12 school system. This course is open only to students enrolled in teacher education programs. The field project does not replace the comprehensive exam. Students are required to take the comprehensive exam.
- EDU 6680 The Alternative Experience Internship Grades K-6 (3)**  
This field experience is designed only for students who are admitted to the Alternative Fifth-Year Experience Route Program in Elementary Education. The internship will consist of a minimum of 100 clock hours of instructional experiences in elementary classroom (K-6) settings.
- EDU 6682 Internship in Area of Specialization (3)**  
This field experience is designed for teacher education candidates who hold current graduate-level professional educator certification and desire additional certification in another field and/or level. Experiences include planning, teaching and supervised activities in an approved clinical setting. *Prerequisite: Admission to the Teacher Education Program, completion of all required coursework, and approval from the Director of Teacher Education.*
- EDU 6691 Research Methodology (3)**  
This course is a study and evaluation of a variety of research methods and types of reporting. (May carry the prefix appropriate to the program of study i.e. SPE, SED, IED). A grade of "B" or better is required.
- EDU 6693 Quantitative Methods of Evaluation of Teaching and Learning (3)**  
This course is a study of descriptive and inferential statistics commonly used in the literature of psychology and education. Emphasis is placed on the application of statistical method to research design. Instruction deals specifically with measures of central tendency and variability, probability theory, estimation and significance, correlation and regression, analysis of variance, and chi-square. A grade of "B" or better is required.
- EDU 6695 Thesis (3)**  
The thesis must be related to an educational problem or situation. Information regarding the thesis program may be obtained from the Dean of the Graduate School. This course may be repeated. Pass/Fail.
- EDU 6696 Practicum in Area of Specialization (1-6)**  
The Practicum is supervised experiences related to instruction in area of specialization. The application of skills, concepts, and principles acquired in previous courses will be emphasized. *Prerequisite: All Teaching Field courses must be completed.*
- EDU 6698 Introduction to Research (3)**  
This course is designed to assist graduate students as they become competent consumers and producers of educational research. Purposes, designs, and characteristics of quantitative and qualitative research will be examined as students read and analyze a variety of studies.
- EDU 6699 Research in Practice (3)**  
The purpose of this course is to provide graduate students in teacher education programs with an opportunity to design, implement, and write about practical quantitative or qualitative research related to their own teaching. Joint research projects with P-12 school systems are encouraged. *Prerequisite: EDU 6698 or EDU 6653*
- EDU 7706 Environmental Education: Teaching Across the Curriculum (3)**  
This course is designed to provide an interdisciplinary experience in teaching using an

**EDU 7709 Seminar in Decision-Making for Teachers and Educational Administrators (3)**  
The purpose of this course is to critically examine, analyze, and evaluate American public education in order to frame problems, identify possible causes, seek and collect information, delineate steps to solutions, and generate possible solutions to problems facing schools today. Particular focus will





**ELE 7793 Problem Analysis in ELE (3)**  
 A study of processes involved in identifying, framing, evaluating analyzing, and seeking information about problems. Emphasis is given to information collection and processing. Students will select and analyze a problem related to early childhood education or elementary education. Restricted to students enrolled in an Education Specialist program.

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**EXECUTIVE MASTER OF BUSINESS ADMINISTRATION**

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**EMBA 5501 Survey of Business Concepts (3)**  
 An overview course of the business management field including the functional areas of accounting, economics marketing, finance, human relations and human resource management. Must be completed as a prerequisite by all students as a condition of entrance in the EMBA program. (Prerequisite course to EMBA program; not for credit in other degree programs) Student must earn a "B" grade or better.

**EMBA 6603 Human Resource Management (3)**  
 An overview of recruitment, selection, training, retention, compensation, and termination of employees and the relationship of an HR strategy to the strategic and operational roles of general managers.

**EMBA 6611 Business Strategy (3)**  
 This course is the capstone course in the EMBA program. It integrates the skills and knowledge developed in earlier courses and emphasizes case analysis. Formulation and implementation of strategies are stressed. The course includes an end-of-course comprehensive examination. A grade of "B" or better is required to complete this course successfully. The course may not be transferred into the EMBA program. Students are required to complete the graduate Educational Testing Service Major Field Test and a Capstone Examination in this course.  
*Prerequisites: Completion of a minimum of 27 semester hours in the EMBA program, with a "B" average or better, in the (e pc( fi ))TJhuTw T5e3"B")9(ent)6o153 Td[(with )7(a .5(er,)5ier,)5R2Ba7(ui)ng)7( Servic)5 trogt5Tw 0.394 -1.1follow4019600busarc7Tc 0.28887e in(e pc( fi ))TJh491 6r31)-age6(1 6r613( )TJage6(1 6r42;(wit(jor Fi)5(e). P7uüü&tosunatidithwhom erHR st13(1651 Twt)7(aEMBA th)8(e skills )72and 2pb d147 TDc6( . )TJ04 F041[(27 .66 Tc71.(7000(a*



- ENG 5560 Victorian Poetry (3)**  
A study of Victorian poetry, with emphasis upon the works of Tennyson, Browning, Arnold, and Hardy.
- ENG 5561 Victorian Prose (3)**  
A survey of the works of major Victorian prose writers, with emphasis upon the works of Carlyle, Newman, Mill, Ruskin, Arnold, and Pater.
- ENG 5562 The Arthurian Legend Through the Ages (3)**  
This course will examine the Arthurian legend not only in literary and historical works from its earliest traces in the Middle Ages to the present, but also in archaeology, the visual and decorative arts (especially painting and sculpture), manuscript decoration, film, music, and opera.
- ENG 5565 African American Literature (3)**  
A study of selected works by significant African American writers from the eighteenth century to the present. Works include poetry, fiction, autobiography, and argumentative and expository prose.
- ENG 5568 Methods and Approaches in Second Language Teaching (3)**  
This course traces the evolution of language teaching from the methods era (e.g., grammar translation method, audiolingual method) to post-methods approaches (e.g., task-based learning, content-based learning, communicative approaches). Students will develop a repertoire of teaching approaches and identify appropriate options for different language teaching scenarios.
- ENG 5569 Principles, Techniques, and Materials in Second Language Teaching (3)**  
This course overviews the teaching principles, techniques, and materials relevant to an interactive approach to second language teaching. Students will expand their teach-

COURSE DESCRIPTIONS · 214

**ENG 6610 The Backgrounds of Twentieth-Century American Literature (3)**

A study of literature (fiction, nonfiction prose, poetry, and drama) as it reflects key issues, ideas, concerns, problems, and trends of the period. May be taught in conjunction with a course in American history.

**ENG 6613 Theory and Practice of Analyzing the Short Story (3)**

A critical study of representative types of short stories employing theoretical approaches in the analytical process.

**ENG 6617 Dramaturgy I (3)**

A study of selected classical, period, and contemporary plays (list may vary with each offering). Emphasis on dramatic form, historical perspectives, staging, and production.

**ENG 6618 Dramaturgy II (3)**

Study of additional classical, period, and contemporary plays (list may vary with each offering). Emphasis on dramatic techniques, character development, directing, staging, and production.

**ENG 6620 Seminar in Restoration and 18<sup>th</sup> Century Literature (3)**

A study of English prose and poetry in the Restoration and early 18<sup>th</sup> century, with emphasis on Dryden, Behn, Swift, and Pope.

**ENG 6625-6627 Specialized Study in Area of English (1-4)**

A study of problem or problems using research techniques. Selection of problem to be approved by student's adviser, instructor under whom study is to be done, and director of graduate studies. Study should contribute to student's program. Preparation of scholarly paper required and may involve oral defense. Total credit for any combination of enrollments in these courses not to exceed four semester hours. A specialized study -1.1npronal8(y)ut. centper 6(cou Tc e6p713 Tw 0 -1.147529 Tw 9.7 w 5.82TD[(torical p)7(e)ccialeonal )n2(per)7 schola-1327(6617 )r56ired So0.oITJc s





- FIN 6657 Corporate Risk Management (3)**  
This course is a study of the analysis and treatment of the pure risks faced by corporations. The course includes development of the risk management process, analysis and uses of various techniques for managing identified exposures. *Prerequisite: MBA 6631*
- FIN 6658 Special Topics in Finance (3)**  
A study in unique topics in Finance. *Prerequisite: MBA 6631*

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**GEOGRAPHY**

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- GEO 5503 Conservation (3)**  
A study of the conservation of natural and human resources with emphasis on population expansion as the major element in a changing ecology.
- GEO 5504 Economic Geography (3)**  
A study of the spatial patterns of economic activities including production, distribution, consumption and the environmental consequences of these activities.
- GEO 5506 Urbanism (3)**  
A study of the historical, physical, economic, and social evolutions of urbanized areas. Emphasis on contemporary urban problems with implications for policy and planning.
- GEO 5508 Rural America: Past and Present (3)**  
A study of rural society, its organizations, agencies, institutions, population trends and composition, patterns of settlement, social processes, and change in character.
- GEO 5511 Demography (3)**  
An analysis of past and present population changes, population characteristics and the interrelationship of population and other social, economic, environmental, and political factors.
- GEO 5512 Geography of Latin America (3)**  
This course covers Latin American countries and colonies and their strategic and economic importance to the U. S. *NOTE: Not open to education majors.*
- GEO 5526 Geography of the Russian Realm (3)**  
An analysis of the physical and cultural elements of Russia and the other former republics of the Soviet Union.
- GEO 5535 Historical Geography of N2Hf.g Rf.**

- HEA 6614 School Law (3)**  
A study of school law as set forth in the common law, state, and federal constitutions, statues, judicial decisions, and in the rules and regulations of state. Major emphasis will be on state and federal law and its impact on education today.
- HEA 6635 Seminar on the American College Student (3)**  
An examination of contemporary college students, focusing on the environment pressures, psychological needs, and values. Emphasis will be placed on student, faculty and administration relationships and interac-



- HIS 5551 The Far East (3)**  
Study of the development and interaction of Chinese, Japanese, and Korean civilizations; the impact of Western cultures, twentieth century conflicts, resolutions and accommodations.
- HIS 5554 Western Thought since the 17<sup>TH</sup> Century (3)**  
Principal ideas and political thinking from the Age of the Enlightenment to the present.

**HIS 6621 History of England in Later Middle Ages (3)**  
Study of England during the 14<sup>th</sup> and 15<sup>th</sup> centuries, with emphasis on cultural and political growth. On demand.

**HIS 6625, 6626, 6627 Specialized Study in Area of History (1-4)**  
Study of problem or problems using research techniques. Selection of problem must be approved by the professor under whom the study is to be made and the Dean of Arts and Sciences. The study should contribute to the student's program. Preparation of a scholarly paper is required and may involve oral defense. Total credit for any combination of enrollments in these courses may not exceed four semester hours. A specialized study may be substituted for a required course only once in a student's program. On demand. See semester hour limits listed under Course Restrictions in General Regulations section.

**HIS 6651, 6652 Readings in History (3)**  
This course of readings in history is designed to immerse a graduate student deeply into historical readings through a combination of classroom lectures, directed individual readings, and oral reports in class. The student will be required to prepare individual papers on readings assigned. On demand. See semester hour limits listed under Course Restrictions in General Regulations section.



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**INTERDISCIPLINARY EDUCATION**

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- IED 5544 Internship Seminar (3)**  
 This course provides interns an opportunity to develop analytical thinking skills through examining broad educational issues and concerns, topics on the state and local levels, and those of personal interest. The scope of the course ranges from juvenile law, classroom management, professionalism, professional development for teachers, and other course topics. This course must be taken concurrently with internship.
- IED 6655 Interdisciplinary Internship in Grades P-12 (6)**  
 The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester.

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**INTERNATIONAL HOSPITALITY MANAGEMENT**

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- IHM 6625, 6626, 6627 Specialized Study in the Area of International Hospitality Management (1-3)**  
 Study of problem or problems using research techniques. Selection of the problem must be approved by the student's adviser, the instructor under whom the study is to be made, and the appropriate dean or branch director. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve

involved in the implementation of the study. The student must submit a written report of the study to the instructor and the dean or branch director. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve

involved in the implementation of the study. The student must submit a written report of the study to the instructor and the dean or branch director. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve

IHM 681( )  
 The student must submit a written report of the study to the instructor and the dean or branch director. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve

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IHM 683 My In the area of international hospitality management, the student must submit a written report of the study to the instructor and the dean or branch director. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve



in the IHM concentration.)

<b>INTERNATIONAL RELATIONS</b>					
<b>IR</b>	<b>5502</b>	<b>International Political Geography (3)</b> An analysis of the reciprocal effects of geography and political organization on the behavior of states including boundaries and frontiers, national resources, spatial strategy and maritime power.	<b>IR</b>	<b>6601</b>	<b>Research Methods in International Relations (3)</b> An investigation of the research methodologies employed in the study of International Relations including research design, variables and hypotheses, citations and reference, qualitative analysis and quantitative techniques. A substantial research paper is required in the course. <b>Note: MSIR candidates must achieve a grade of “B” or better in IR 6601 to complete degree program requirements.</b>
<b>IR</b>	<b>5524</b>	<b>Contemporary American Foreign Policy (3)</b> This course examines the foreign policies processes of the United States: historical traditions, political institutions, economic and military capabilities, the Congress, the Presidency, interest groups, the media, and public opinion.	<b>IR</b>	<b>6602</b>	<b>Geostrategic Studies (3)</b> This course examines the political, military, economic and cultural effects of geography in historical and contemporary terms. Specific emphasis is placed on the role of geography in the formulation of military-political policy in land power, sea power, airpower, and outer space. Comprehensive geopolitical theories will be employed as analytical tools in the course.
<b>IR</b>	<b>5533</b>	<b>Comparative Government (3)</b> A comparative analysis of state governments in the world with an emphasis on political cultures, governmental institutions and political processes that lead to differences and international tensions.	<b>IR</b>	<b>6610</b>	<b>International Organizations (3)</b> This course examines the evolution and functions of international organizations; political structures and international systems for the collective use of power and cooperative action among states; and the impact of international Non-Governmental Organizations (NGO) and other types of transnational relations and organizations on global affairs.
<b>IR</b>	<b>5551</b>	<b>Survey of International Relations (3)</b> An introduction of the discipline of International Relations for graduate students; states, power, national interests, the security dilemma, instruments of foreign policy, challenges to sovereignty, international organizations, and globalization.	<b>IR</b>	<b>6612</b>	<b>Comparative Public Policy (3)</b> This course examines the process of policy making in a cross-comparative framework that illustrates how different nation states, both in the developed and the developing worlds, formulate and implement public policy.
<b>IR</b>	<b>5552</b>	<b>International Law (3)</b> An examination of the sources and development of international law from historical, political, legal, and philosophical standpoints, with emphasis on substantive areas of law.	<b>IR</b>	<b>6620</b>	<b>International Political Economy (3)</b> An examination of the interrelationships between international politics and economics: states and markets, theories of IPE, trade, foreign investment, international monetary affairs, foreign aid, state development strategies, and globalization.
<b>IR</b>	<b>5570</b>	<b>Politics of Southeast Asia (3)</b> This course involves the study of politics in the Philippines, Indonesia, Vietnam, Laos, Kampuchea, Malaysia, Singapore, Brunei, Myanmar, and Thailand. It investigates the historical and cultural factors contributing to their political relationships within the region and internationally.	<b>IR</b>	<b>6625, 6626, 6627</b>	<b>Specialized Study in International Relations (3)</b> A study of a problem or problems using research techniques. Selection of the problem must be approved by the student’s adviser, the instructor under whom the study is to be made, and the department chair. The study should contribute to the student’s program. Preparation of a scholarly paper is required and may involve an oral defense. A specialized study may be substituted for a required course only once in a student’s program. It may, however, be substituted for one or two electives. <i>Prerequisite: IR 6601.</i>
<b>IR</b>	<b>6600</b>	<b>Selected Topics in International Relations (3)</b> An examination of a specifically defined topic of special and/or current interest and importance, which is not covered in regular course offerings in the International Relations program. A selected topic in International Relations course can only be used as an elective in the program. See semester hour limits listed under Course Restrictions in General Regulations section.			

See semester hour limits listed under Course Restrictions in General Regulations section.

- IR 6629, 6630 Seminar in International Relations (3)**  
An analysis of specified topics at the international level. (For example: "Armaments, Disarmament, and Proliferation," "Nationalism and World Order," "Peacekeeping," or "Organized Use of Force") All selected topics courses must be approved by the department chair. The course can be used to substitute for a required course only once in a student's degree program. The substitution must also be approved by the department chair.
- IR 6631 Intercultural Relations (3)**  
An analysis of the influence of culture on interstate relations including theories, concepts, and applications.
- IR 6633 Developed and Developing Nations (3)**  
An analysis of the systemic linkages between advanced, emerging and weak states; focus will be on the political, economic, and cultural issues relevant to the international relations of those states within both a regional and global context.
- IR 6634 Tradition, Revolution, and Change (3)**

through media communication, elite empowerment and ownership of media assets, the changing nature of foreign and domestic influences in politics and the role of media technology in affecting approaches to public policy issues.

- IR 6655 International Conflict Management (3)**  
 This course analyzes responses to international conflict and approaches to establishing peace and peacekeeping at the local, national, and global levels to include theoretical constructs about conflict management techniques (mediation, negotiation, escalation, de-escalation, termination, and outcomes).
- IR 6656 International Power and Influence (3)**  
 A theoretical and empirical examination of how nations use political, military, and economic resources to influence the behavior of other nations. The course will consider the effectiveness of political communications, public relations, foreign aid, economic sanctions, threats of force, and limited uses of force. Special emphasis will be placed on the effects of foreign influences on domestic politics.
- IR 6660 Military Strategy and International Relations (3)**  
 An assessment of military leaders and armed forces in the development of national security.

<p><b>IR 6687</b> debate concerning the formulation and implementation of U.S. drug policy. <b>Free Trade and Economic Integration in the Western Hemisphere (3)</b> A critical analysis of the origins, development, consolidation and limitations of free trade and economic integration in the Western Hemisphere. Special attention will be given to the complex political, economic and social forces that support, hinder and otherwise shape such international economic agreements.</p>	<p><b>IS 6676</b> <b>E-Commerce for Global Business (3)</b> Introduces state-of-the-art concepts and applications which are emerging in the field of electronic commerce. <i>Prerequisite for MBA students: MBA 5505 or equivalent</i></p>
<p><b>IR 6688</b> <b>Islamic Fundamentalism (3)</b> An advanced seminar dealing with the theology and practice of Islam and its impact on international, legal, political, security, and social issues.</p>	<p><b>IS 6679</b> <b>Management Information Systems (3)</b> Conceptual and practical foundations of information systems to include support of management and decision-making functions, computer system project management, economic and legal considerations of management information systems, and system implementation/evaluation. <i>Prerequisite for MBA students: MBA 5505 or equivalent</i></p>

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**INFORMATION SYSTEMS**

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<p><b>IS 6625, 6626, 6627</b> <b>Specialized Study in the Area of Information Systems (1-3)</b> Study of problem or problems using research techniques. Selection of the problem must be approved by the student's adviser, the instructor under whom the study is to be made, and the appropriate dean or branch director. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program.</p>
<p><b>IS 6672</b> <b>Information Systems and Business Strategy (3)</b> Considers the role of operations and information systems in defining competitive business strategies. Structural decisions (product design, marketing, and finance) as well as issues that cross corporate boundaries (strategies for distribution, supply management and global operations) are addressed. Examines emerging issues such as global manufacturing, e-commerce, sourcing strategies, manufacturing automation and environmental issues. <i>Prerequisite for MBA students: MBA 5505 or equivalent</i></p>
<p><b>IS 6674</b> <b>Information Systems Management (3)</b> Theoretical and practical applications for managing computerized information systems; planning and control functions of the firm; emphasis on case studies of design projects; the application of human and organizational issues of Management Information Systems (MIS); current academic research into the analysis, design, and implementation of computer information systems. <i>Prerequisite for MBA students: MBA 5505</i></p>

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**KINESIOLOGY AND HEALTH PROMOTIONS**

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<p><b>KHP 6601</b> <b>Philosophy and Principles of Health and Physical Education (3)</b> This course will introduce the sociological-psychological, educational-motor learning, mechanical-kinesiological, and physiological aspects of health and physical education.</p>
<p><b>KHP 6602</b> <b>Motor Skills and Human Performance (3)</b> In an interdisciplinary approach, students will be exposed to a systematic analysis of motor skills and human performance. Students will learn how to observe, evaluate and diagnose, and apply interventions to improve motor skill performance.</p>
<p><b>KHP 6604</b> <b>Measurement and Evaluation in Health and Physical Education (3)</b> The course discusses the proper selection and application of tests and measurements in health and physical education. Practical and economical tests in the various performance areas which can be used by the health and physical education teacher in the school situation will be examined.</p>
<p><b>KHP 6610</b> <b>Physical Education, Sport and the Law (3)</b> The course is designed to provide students an awareness and understanding of basic legal responsibilities of educators and coaches.</p>
<p><b>KHP 6615</b> <b>Sport Administration (3)</b> The study of the basic concepts, theories and organization of administration including financial management as applied to sport, physical education, recreation, and intramurals.</p>
<p><b>KHP 6616</b> <b>Sport Finance (3)</b> This course is designed to provide students with information concerning advanced theory in finance, accounting, and managerial</p>

control of budgets.

**KHP 6617 Readings in Health and Physical Education (3)**

An independent exploration of the literature and current research in the fields of Health Education and Physical Education. A grade of "B" or better is required.

**KHP 6620 Physical Fitness: A Critical Analysis (3)**

The course involves an examination of the effects of physical activity on various fitness and health parameters by reviewing current research studies. Students will be introduced to methods of evaluating one's fitness level and the proper prescription guidelines.

**KHP 6621 Supervision of Instruction in Health and Physical Education (3)**

Consideration is given to the broader viewpoint of supervision as it relates to the improvement of health and physical education through in-service training of personnel, association with the teaching and administrative-supervisory staff, and general school and community relationships. Techniques of supervision and their application in improving the teacher-pupil learning situations will be examined.

**KHP 6623 The Biomechanics of Sport (3)**

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- ing of sports skills and the development of individuals into efficient team units.
- KHP 6673 Ethics in Sport (3)**  
The course is examines ethical matters and issues relating to sport and physical activity.
- KHP 6674 Entrepreneurship in Sport (3)**  
The course provides the student with an

successfully. The course may not be transferred into the MBA program. Students are required to complete the graduate Educational Testing Service Major Field Test and a Capstone Examination in this course.

*Prerequisites: Completion of a minimum of 24 semester hours in the MBA program, with a "B" average or better, including the following courses: ACT 6691, MBA 6651,*

agement.

**MGT 6625, 6626, 6627 Specialized Study in Management (1-6)**

Study of a problem or problems using research techniques. Selection of the problem must be approved by the student's adviser, the instructor under whom the study is to be made, and the appropriate branch director. The study should contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. No more than three semester hours credit of this course may be trans-



financial theory that will assist management's evaluation of the firm's investment, financing, and dividend policies relative to the objective of maximizing shareholder wealth and to familiarize the student with analytical tools that assist in financial decision making.

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### MATHEMATICS

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**Note:** *Multivariable calculus and a course in proof techniques or its equivalent or permission of the mathematics adviser are required prerequisites for all graduate mathematics courses.*

- MTH 5512 Discrete Mathematics (3)**  
This course covers sets, relations, functions, counting, algorithms, Boolean algebra, and graphs.
- MTH 5520 Introduction to Graph Theory (3)**  
The elements of the theory and algorithms of graphs and hypergraphs with motivating examples from computer science, networking, scheduling, biology etc.: algorithms, complexity, data structures, shortest paths, spanning trees, depth-first search, planar graphs, colorings of graphs and hypergraphs. *Prerequisites: Linear Algebra, computer programming course, or permission of instructor.*
- MTH 5522 Numerical Analysis (3)**  
This course covers topics including finite differences, interpolation, numerical integration and differentiation, solutions of equations of one variable, linear systems, and numerical solutions of ordinary differential equations.
- MTH 5524 Real Analysis I (3)**  
A study of the real number system, completeness, limits,  $\mathbb{C}$

the period studied.

- MTH 6612 Advanced Discrete Mathematics (3)**  
 This course covers trees, network models and Petri nets, Boolean algebra and combinatorial circuits, automata, grammars, and languages. *Prerequisite: MTH 4412, MTH 5512 or permission of instructor.*
- MTH 6615 Advanced Topology (3)**  
 Generalization of such topics as functions, continuous functions, open, closed, compact and connected sets, arbitrary topological spaces. *Prerequisites: MTH 4424 or 5524, MTH 4426 or 5526 or permission of instructor*
- MTH 6616 Mathematical Models (3)**  
 An introduction to the modeling process. Students will practice creative and empirical model constructions, analyze models and do independent model research. Application using paired data will be included.
- MTH 6620 Advanced Concepts of Algebra (3)**  
 This course covers topics including rings and fields, polynomial rings and factorization, and Galois theory. *Prerequisite: MTH 4442 or 5542 or permission of instructor*
- MTH 6621 Foundations of Mathematics (3)**  
 A study of the axiomatic nature of mathematics, theory of sets, cardinal and ordinal numbers, continuum hypothesis and axiom of choice.
- MTH 6624 Applied Combinatorics (3)**  
 A study of generating functions, Inclusion-Exclusion, Burnside's Theorem and Polya's Enumeration Formula.
- MTH 6625, 6626, 6627 Specialized Study in Area of Mathematics (3)**  
 A study of a problem or problems using research techniques. Selection of problem must be approved by student's adviser, instructor under whom the study is to be made, and the appropriate director of the Graduate School or Dean of Arts and S59p

hensive assessment prior to graduation.

**MUI 6614 Music Publishing (3)**  
An in-depth examination and application of current production, marketing, merchandising and distribution of music products with an emphasis in publishing. In addition, the student will develop a new music-publishing product incorporating

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**5520/6620**

**5521/6621**

**5522/6622**

**Bassoon**

**Saxophone**

**Trumpet**

- MUS 6614-6647 Private Instruction in Performance (1)**  
 Private instruction in performance. Students in the conducting program will be required to take two hours of performance instruction.
- 6614 Piano**
  - 6615 Organ**
  - 6616 Voice**
  - 6617 Clarinet**
  - 6618 Oboe**
  - 6619 Flute**
  - 6620 Bassoon**
  - 6621 Saxophone**
  - 6622 Trumpet**
  - 6623 Horn**
  - 6624 Trombone**
  - 6645 Euphonium**
  - 6646 Tuba**
  - 6647 Percussion**

- MUS 6625, 6626, 6627 Specialized Study in Area of Music (1- 3 credit hours per course)**  
 A study of a problem or problems using research techniques. Selection of problems must be approved by the student's adviser, instructor under whom the study is to be made, and the appropriate Director of the Graduate School. Study should contribute to student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.

- MUS 6630 Collaboration for Inclusion (3)**  
 This course is designed to provide advanced students with an in-depth study of current literature and research on collaboration and consultation as a service delivery model to meet the challenge of educating students with disabilities in the regular classroom. Specifically, this course focuses on collaborative-related issues for teachers who work with students with disabilities. The course is premised on the federal mandate that requires educators to employ the interactive framework established by PL 94-142 (now

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musical experiences, performances, and understandings. Additionally, a survey of recent research literature on assessment, musical and otherwise, will take place which will enhance various evaluation applications.

- MUS 6662 Advanced Instrumental Arranging (3)**  
A study of advanced arranging and scoring concepts for instrumental ensembles. Study of contemporary harmony, voicing, scoring methods, and their applications to various ensemble groupings.
- MUS 6670 Practical Band Instrument Repair (3)**  
This course covers the maintenance, repair and supervision of equipment used by modern music educators. Exploration of industry guidelines and evaluation of financial restraints on music programs. System and rationale for evaluating equipment will be developed.
- MUS 6691 Research and Evaluation in Music Education (3)**  
A study and evaluation of a variety of research methods, types of reporting, analysis of standardized tests and construction of teacher-made tests. Required of all graduate music majors.
- MUS 6695 Thesis (3)**  
Three hours may be applied toward fulfilling degree requirements when approved by the student's adviser and the Dean of Graduate Studies and Research.
- MUS 6696 Practicum (1-3 credit hours)**

nurse educator, patterns of nursing education, nursing curricula, instructional design, and professional, social, and political issues influencing nursing education. *Prerequisite: NSG 5504, 6660, 6691, 6692 and clinical specialty courses. Co-requisite: NSG 6615.*  
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**NSG 6615 Nursing Education Internship (3/12)**  
The course provides the student opportunities to apply the theory of curriculum and learning theory basic to instructional design to nursing education. Involves supervised experience in the role of the nurse educator. *Prerequisite: NSG 5504, 6660, 6691, 6692 and clinical specialty courses. Co-requisite: NSG 6614.* Sp

**NSG 6616 Role of the Nursing Administrator (2)**  
Culminating course which assists students to evaluate the role of the nurse administrator, analyze issues and trends in nursing administration, and design strategies for resolution of issues and conflicts within the functional role. isie: 0.0954 T3447 Td(NSG 6614.)Tj[(Tj-0.0002 Tc033)]TJTd 0.0043 Tw 40.392 -1.88.42 675.18010  
NSG 6614.

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|-----|-------------|---|-----|-------------|--|
| NSG | <b>6636</b> | <p><b>Nursing Informatics Internship (4/16)</b><br/>Facilitates the application of nursing and information systems theory to practice environments. Students participate in relevant clinical practice with a health or nursing information technology expert. <i>Prerequisites: Completion of nursing specialty courses for Nursing Informatics Specialist. Co-requisite: NSG 6634.</i> Sp</p> | NSG | <b>6655</b> | <p><b>Synthesis and Evaluation of Advanced Nursing Practice (1)</b><br/>Presents students with information concerning structure and format of the comprehensive examination. Focuses on the critical thinking and communication skills integrated throughout the curriculums which are the functional base of the professional role. <i>Prerequisites: NSG 5504, 6660, 6691, 6692 and clinical specialty courses.</i> Sp</p> |
| NSG | <b>6640</b> | <p><b>Advanced Maternal/Infant Health Nursing (2)</b><br/>Focus is on the knowledge and theory base critical to advanced practice in maternal/infant health nursing. The primary emphasis is the normal processes of childbearing and neonatal health. <i>Co-requisite or Prerequisite: NSG 5504, 5512, 5515, 6671, 6692. Co-requisites: NSG 6641, 6660 and 6691.</i> Sp.</p>                   | NSG | <b>6659</b> | <p><b>Adaptation of FNP Role (1)</b><br/>Presents the conceptual and theoretical base</p>  |
| NSG | <b>6641</b> | <p><b>Advanced Maternal/Infant Nursing Preceptorship (3/9)</b><br/>The purpose of this course is to provide the student the opportunity to incorporate advanced knowledge and theories into the nursing care of childbearing families. <i>Co-requisites: NSG 6640, 6660, 6691.</i> Sp.</p>  |     |             |  |
| NSG | <b>6642</b> | <p><b>High-Risk Maternal/Infant Health Nursing (2)</b><br/>Focuses on the nursing management of the high-risk client and family. The advanced physiological and psychosocial concepts and theories which form the basis of nursing management are identified and evaluated. <i>Prerequisites: NSG 6640, 6641. Co-requisites: NSG 6643, 6649.</i> F</p>  |     |             |  |
| NSG | <b>6643</b> | <p><b>High-Risk Maternal/Infant Health Nursing Preceptorship (3/9)</b><br/>Provides the student the opportunity to apply advanced knowledge and theories to the care of mothers and infants experiencing deviations from normal processes. <i>Prerequisites: NSG 6640, 6641. Co-requisites: NSG 6642, 6649.</i> F</p>   |     |             |  |
| NSG | <b>6645</b> | <p><b>Family and Cultural Theory in Advanced Nursing Practice (3)</b><br/>The purpose of this course is to provide the student with in-depth knowledge of family and cultural assessment. Further analysis of diverse cultures and multi family structures will enhance the student's application of advanced nursing interventions. Su</p>   |     |             |  |
| NSG | <b>6649</b> | <p><b>Advanced Pharmacology (3)</b><br/>Presents knowledge and theory critical to management of the pharmacological needs of a variety of populations. Discusses major classification of drugs and protocols for administration. F</p>  |     |             |  |



- core and clinical courses. Co-requisite: NSG 6680. Sp*
- NSG 6671 Advanced Pathophysiology (3)**  
Provides an in-depth study of pathophysiologic processes to correlate changes that occur at the cellular and system level with the development, clinical manifestations, and management of various disease states. F
- NSG 6680 Family Nurse Practitioner Internship (5/20)**  
Internship course designed to provide extensive clinical experience with a broad spectrum of clients to allow students opportunities to strengthen clinical skills in specific areas. *Prerequisite: All core and clinical courses. Co-requisite: NSG 6670. Sp*
- NSG 6691 Research Methodology (3)**  
Evaluates the principles of the research process for both quantitative and qualitative research. Emphasis is on the utilization and generation of research relevant to advanced nursing. (A grade of "B" or better is required.) Sp
- NSG 6692 Data Analysis Techniques in Research (2)**  
Examines basic statistical methods for analyzing, interpreting, and evaluating data. The focus is on developing knowledge necessary to critically evaluate research reports and selected data.
- NSG 6695 Thesis (4 minimum)**  
*Prerequisites: NSG 6691, 6692. Pass/Fail. F, Sp, Su*
- NSG 6696 Scholarly Inquiry Practicum I (1-2)**  
Faculty-guided experience to further develop the student's knowledge of a special area of interest utilizing research-based inquiry. *Prerequisites: NSG 6691, 6692. F*
- NSG 6697 Scholarly Inquiry Practicum II (1-2)**  
Faculty-guided experience for implementation and evaluation of student's scholarly inquiry. *Prerequisite: NSG 6696. Sp*

**Thesis Option**

Students who plan to progress to doctoral education will be encouraged to pursue the thesis option in preparation for the doctoral dissertation. Students should discuss with their adviser the option prior to filing their degree plan.

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**DOCTOR OF NURSING PRACTICE**

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- NSG 8801 Healthcare Informatics and Data Management (2)**  
Provides an overview of the planning, implementation, and evaluation of clinical information systems. Assists student in recognizing the applications of nursing informatics

in healthcare systems. Includes a historical review of the evolution of nursing informatics and current trends. Prepares student with knowledge and skills necessary to retrieve, manage, and generate data relevant to evidence-based practice. *Prerequisite: NSG 6655 or admission as post-MSN. Co-requisite: NSG 8802*

- NSG 8802 Applied Biostatistics (3)**  
Builds on prior knowledge of basic statistical concepts, including descriptive statistics and the components of statistical inference (p-values and hypothesis testing). Requires analysis of a dataset created by the student using measurement techniques. Emphasizes results and applications rather than clinical theory. Focuses on linear and multiple regression, logistic regression, repeated measures analysis, and multivariate analysis of variance (MANOVA). *Prerequisite: NSG 6655 or admission as post-MSN, NSG 6692 or equivalent course. Co-requisite: NSG 8801.*

- NSG 8804 Policy and Politics in Healthcare (3)**  
Addresses healthcare policies and political forces that shape them. Analyzes the adequacy and impact of current legislation; federal, state and workplace policies; and the positions statements applicable to the healthcare system and the advance practice roles. Emphasizes the leadership role of the DNP in areas of analyzing, formulating and implementing healthcare policies. Explores the interrelationships between policies and the economics of healthcare. *Prerequisites: NSG 8801, NSG 8802*

- NSG 8805 Principles of Epidemiology (3)**  
Presents concepts, principles, and methods of the epidemiological approach to disease and intervention, identification of cause of disease, response to disease outbreak, disease surveillance, evaluation of screening and prevention measures, and ethical issues in epidemiological research. Applies biostatistical concepts necessary to interpret findings of epidemiological studies and to critically evaluate application to evidence-based practice. Examines distribution and determinants of disease risk in human populations across the lifespan with an emphasis on disease prevention and early detection. *Prerequisites: NSG 8801, NSG 8802.*

- NSG 8810 DNP Residency I: Project Identification (1)**  
Orients the student to the Residency Synthesis Project. Provides an in-depth exploration of how to identify and develop a project for improvement of nursing practice or patient outcomes within a selected area of advanced practice. Requires identification of project, synthesis and summary of evi-

dence-based rationale for the identified project, and selection of residency committee members. *Prerequisite: NSG 6655. Co-requisite: NSG 8812. Pre- or Co-requisite: NSG 8801, 8802.*

challenges of a global, dynamic, and changing healthcare environment. Analyzes and evaluates nursing leadership and evidence-based management theories critical to leading in today's healthcare systems. Focuses on integration and application of concepts of leadership, management

**NSG 8812 Foundations of Evidence-Based Practice (2)**

Explores issues related to evidence-based practice. Emphasizes the process of evaluating evidence for best practices within healthcare delivery systems. Equips the advanced practice nurse with the skills needed to identify, critically appraise, and utilize best evidence to recognize and comprehend concurrent needs and demands of patients, communities, and organizations and direct appropriate interventions for the improvement of outcomes. *Prerequisite: NSG 6655. Co-requisite: NSG 8810. Pre- or Co-requisites: NSG 8801, NSG 8802.*

**NSG 8815 Evaluation Methods for Improvement of Clinical Outcomes (2 hours)**

Provides an in-depth exploration of how methods of evaluation of clinical and program outcomes guide safe and effective patient and aggregate health care. Focuses on in-depth analysis of the literature; research design and sampling; measurement of study variables related to outcomes research; data collection; outcome and evidence-based models and theories; nurse-sensitive outcomes; and interdisciplinary research. Explores quantitative and qualitative approaches as well as survey research in the examination of the various types of outcomes measured: clinical, patient, or economic. *Prerequisites: NSG 8801, NSG 8802, NSG 8812. Co-requisites: NSG 8820.*

**NSG 8820 DNP Residency II: Project Development (1)**

Allows students to continue development of an evidence-based project proposal with a systems-level impact for the improvement of nursing practice or patient outcomes within a selected area of advanced practice. Provides an in-depth exploration of how methods of evaluation of clinical and program outcomes guide safe and effective patient and aggregate health care. Explicates clinical trends, expert clinical judgment, and individual and population-focused interventions from clinical experiences. Culminates in the formal presentation and defense of the Residency Synthesis Project. *Prerequisites: NSG 8801, NSG 8802, NSG 8812, and NSG 8810. Co-requisite: NSG 8815*

**NSG 8822 Leadership in Organizations and Systems (2)**

Prepares students to lead and manage the

ogic and pathophysiologic foundations, ethical and legal principles and healthcare systems in an intense practice immersion within an area of advanced practice specialty nursing. Requires evaluation of the Residency Synthesis Project. *Prerequisites: NSG 8815 and NSG 8830*

**NSG 8850 DNP Residency Project Dissemination (3)**  
Emphasizes the synthesis, critique and application of evidence to support quality clinical or organizational practices. Requires completion of a final report to the Residency Project Committee and presentation to faculty and peers. Concludes with submission of the final residency synthesis project paper that documents practice synthesis, DNP competencies, and scholarship. *Prerequisites: All DNP Courses from Semesters 1-3*

private organization.  
**PA 6622 Public Policy (3)**  
The study of the theoretical orientations underlying the public policy process and the conceptual framework for differentiating types of public policies. Students examine current issues and policies from various theoretical and practical perspectives.

**PA 6624 Public Human Resource Management (3)**  
A survey of the basic principles and functions that include planning, work analysis, position classification, job specifications, recruitment, staffing, performance management and appraisal, labor-management relations, training, and other personnel functions. Topics include statutory and regulatory constraints and outsourcing and privatization.

**PA 6625 Specialized Study in Public Administration (3)**  
Study of problem(s) in a public or nonprofit organization using research design and methodologies and producing a scholarly paper that contributes directly to the student's curriculum. The student's faculty adviser or the Director of the MPA Program must approve the topic. The specialized study may substitute for a required core course only once in a student's program and only if taken for three credit hours. See semester hour limits listed under Course Restrictions in General Regulations section.

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**PUBLIC ADMINISTRATION**

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**PA 6601 Research Methods in Public Administration (3)**  
An introduction to basic, applied, and evaluative research methodologies and data analysis techniques. Students apply these methodologies to issues, programs, and research problems in the field of public administration. A grade of "B" or better is required.

**PA 6602 Quantitative Methods in Public Management (3)**  
An introduction to the fundamental concepts of descriptive and inferential statistics including bivariate analyses and parametric and nonparametric statistical techniques.

**PA 6603 Economics for Public Management (3)**  
An introduction to economic theory emphasizing the application of selected microeconomic and macroeconomic theories to issues in public administration.

**PA 6610 Foundations of Public Administration (3)**  
An overview of the history and intellectual foundation of public administration including the major ideas, developments, theories, concepts, and contributors to the growth of public administration and its practice in the United States. The student is introduced to the case analysis method.

**PA 6620 Theory of Organizations (3)**  
An introduction to the major theoretical approaches and debates in organization theory including core concepts and key issues arising from the classical and contemporary influences. Emphasis is on the evolution of organization theory in the United States and the elements that distinguish public from

**PA 6630 Strategic Planning (3)**  
The study and application of decision making models with emphasis on understanding the role and importance of strategic planning in public and nonprofit organizations.

**PA 6631 Program Evaluation (3)**  
An overview of the theoretical foundations and techniques of program evaluation including need assessments, outcome evaluations, surveys, and program outcome(s) and impact evaluation (s).

**PA 6640 Intergovernmental Relations (3)**  
The administrative, fiscal, and legal issues that govern relations among the various governmental entities in the United States.

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ship cannot be used to satisfy an elective or core course requirement. Pass/Fail grade.

**PA 6699 Capstone in Public Administration (3)**  
 The required outcome assessment course using case analyses, papers, and/or computer simulations that emphasize the application of analytical skills and knowledge gained from curriculum courses to administrative, organizational, and policy problems. To enroll in PA 6699, students must have a 3.0 grade point average or better and take PA 6699 as the final core course or, with the approval of the instructor, in conjunction with the final core course in the MPA program. To successfully complete this course, the student must achieve a grade of "B" or better.

**NOTE:** *Courses from disciplines other than Public Administration (CJ, HRM, MAN, IR, PSY, EBSEBS, and EDU) used as PA concentration selections are described in the bulletin sections pertaining to those programs.*

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**PHYSICS**

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**PHY 5500 Topics in Physics (3)**  
 This course focuses on selected topics in the field of physics. These may include geophysics, biophysics, nuclear power and waste, relativity, health physics, astrophysics, mathematical methods in physics, particle physics.

**PHY 5510 Modern Physics (3)** Special relativity, quantum mechanics, and many electron systems. *Prerequisites: MTH 1125 and PHY 2253, L253 or PHY 2263, L263. Co-requisite: PHY L510*

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<b>POL 5523</b>	<b>U.S. Diplomatic History (3)</b> Study of factors, forces, and functions in making of American foreign policy. Includes description and analysis of principal developments in U.S. and interactions with other countries from 1760s to 1941.	<b>PSE 6608</b>	<b>Curriculum Integration of Technology (3)</b> The purpose of this course is to prepare students to apply knowledge and competency in instructional technologies in relation to curriculum design, diverse models, and teaching situations at all developmental levels. Included is evaluation of software, audio/visual production, and instructional design using technology as a basis for instruction.
<b>POL 5524</b>	<b>Contemporary American Foreign Policy (3)</b> Analysis of American role in the world since Pearl Harbor, nature and significance of current American foreign policy, rationales and suggested alternatives, and policy-making process.	<b>PSE 6612</b>	<b>Community Junior College (3)</b> This course covers the rise and development of the community or junior college in American education, its philosophy and functions with specific attention to the transfer, terminal, and community service functions. Problems of organization, curriculum construction, staffing and instructional procedures are stressed.
<b>POL 5533</b>	<b>Comparative Government (3)</b> Comparative analysis of major world power governments with emphasis upon comprehension of differences which lead to international tensions.	<b>PSE 6615</b>	<b>Social and Philosophical Foundations of Education (3)</b> This course provides an exploration of societal structures and problems and their interrelationship with education. It also provides an overview of philosophies and educational theories.
<b>POL 5551</b>	<b>International Relations (3)</b> Analysis of contemporary world politics, including structures and processes through which states interact, power politics, geopolitics, regional alliances, and psychological warfare.	<b>PSE 6642</b>	<b>History of Education (3)</b> A consideration of the development of educational ideas and institutions from ancient times to the present. Emphasis placed on Western Europe and the United States.
<b>POL 6625, 6626, 6627</b>	<b>Specialized Study in Area of Political Science (1-4)</b> Study of problem or problems using research techniques. Selection of problem must be approved by student's adviser, professor under whom study is to be made, and Dean of the Graduate School. Study should contribute to student's program. Preparation of scholarly paper required and may involve oral defense. Total credit for any combination of enrollments in these courses is not to exceed four semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.	<b>PSE 6651</b>	<b>Comparative Education (3)</b> This course is a comparative in-depth study of representative school systems in the world. Particular attention is given to comparison of merits and issues of the systems in terms of governance and structure of education as well as an exploration of the best educational practice that can be learned from each.
<b>POL 6665</b>	<b>Reading in International Relations (3)</b> Guided program of reading and study of international relations. Should be related to student's needs and have approval of adviser. See semester hour limits listed under Course Restrictions in General Regulations section.	<b>PSE 6653</b>	<b>Educational Evaluation (3)</b> The course presents basic procedures used in evaluation. A major focus is on planning and constructing teacher-made tests and non-test evaluation techniques. Also includes study of a variety of standardized tests.

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**POST SECONDARY EDUCATION**

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<b>PSE 6606</b>	<b>Current and Emerging Instructional Technologies (3)</b> This course focuses on current and emerging instructional technologies. The emphasis of this class is on the instructional use of production software, desktop publishing, graphics, hypermedia, on-line services, optical technology, and telecommunications. <i>Prerequisite: EDU 6605 or permission of instructor.</i>	<b>PSE 6658</b>	<b>Understanding Cultural Diversity (3)</b> The focus of this course is on understanding culturally different students, the psychologi-
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education and an examination of how historical events and ideas have influenced those issues and trends. Special emphasis will be given to the analysis of trends and issues and formation of judgments based on supportable information.

**PSE 6665 Field**

- PSY 6606 Interventions for Children and Adolescents (3)**  
This course examines the behavioral characteristics of children and adolescents including their emotional, social, and cognitive behaviors. Emphasizes intervention, assessment, diagnoses, teaching, and prevention.
- PSY 6610 Physiological Dynamics of Alcohol and Other Drugs (3)**  
A study of physiological and psychological dynamics and resultant behavioral implications in use of alcohol and other drugs. Based on assessment of dynamics and behavior and application of diagnostic procedures using appropriate manuals and materials.
- PSY 6613 Objective Personality Assessment (3)**  
An introduction to objective personality assessment. The student will learn basic administration, scoring procedures, and utilization of assessment results in clinical practice for various objective personality and temperament measures. Application of objective personality instruments and computer scoring will be explored. *Prerequisites: PSY 6645 or similar graduate course and PSY 6669 or similar graduate course*
- PSY 6620 Introduction to Play Therapy (3)**  
This course is designed to promote the development of a historical, theoretical and ethical basis for the practice of play therapy. This course must be taught by a registered play therapist.
- PSY 6625, 6626, 6627 Specialized Study in Psychology (1-3)**  
A study of a problem or topic using research techniques or a guided program of readings. Preparation of a scholarly paper is required and may involve an oral defense. A specialized study may be substituted for only one required course or elective in a student's program. Approval by the student's adviser, the course instructor, and department chair is required. See semester hour limits listed under Course Restrictions in General Regulations section.



**PSY 6645 Evaluation and Assessment of the Individual (3)**  
 The study of knowledge, understanding and skills necessary to obtain records, appraise information and write reports regarding individuals. Involves integration and use of data from interviews, standardized tests, scales, inventories, other procedures, including individual and group methods of assessment. *Prerequisites: PSY/EDU 6653, PSY 5501, or permission of instructor*

**PSY 6648 Theories of Personality (3)**  
 A critical analysis of major theories and systems of personality.

**PSY 6650 Practicum: Psychometry (3)**  
 This course provides field supervised experiences preparatory to the Internship in School Psychometry/School Psychology. At least 100 hours of prescribed experiences in school psychometry/psychology must be completed at approved schools (K-12) and must be supervised by an approved school psychometrist or school psychologist. *Prerequisites: PSY 6636 and PSY 6637*

**PSY 6653 Measurement and Evaluation (3)**  
 A study of basic statistical processes and measures used in education, counseling, and psychology. Analysis of a variety of standardized tests and measurement procedures including construction, use, and interpretation. Construction of teacher/counselor-made tests and measuring devices.

**PSY 6655 Internship: Psychology Assessment (6)**  
 This course will provide a clinical internship appropriate to the specialty and practice of psychological technician. Training will be six months in duration and consist of at least 500 hours, 250 of which hours must be in direct contact with patients/clients. The student will be supervised for at least one hour per each five hours of client contact. At least 60% of supervisory hours must be in direct contact with patients/clients.

psychology and includes legal and ethical issues, professional standards, models of service delivery, roles of the school psychologist, modern technology, and assessment. *Enrollment limited to Ed.S. students.*

- the instructional needs of students and to plan intervention programs. Field experiences required.
- RED 6664 Literacy in the Content Area Grades K-6 (3)**  
The examination of research-based methods and materials for teaching reading and writing in grades K-6. Field experiences required.
- RED 6670 Advanced Study of Literacy (3)**  
This course prepares the student to examine the variables related to difficulties in learning to read printed material. Emphasis is placed on designing appropriate programs of improvement.
- RED 6671 Internship: Applying Research-Based Literacy Assessment and Instruction (2)**  
Directed practice in administering assessments to guide instruction in the essential components of reading and writing. A minimum of 100 clock hours of clinical experiences. *Prerequisite: RED 6686 and formal*



physical education, recreation, and intramurals.

**SOC 6631 Social Deviation (3)**  
A graduate seminar which focuses upon the social and cultural factors as they apply to deviance. The work of other disciplines in the study of deviance is reviewed and evaluated. Special emphasis is given to the different sociological approaches in the area of deviance; selected types of social deviation are examined and analyzed through these different sociological perspectives. The course is structured as a service course that has a pragmatic and interdisciplinary appeal to people in education, business, counseling, criminal justice and agency work, as well as to those who wish to further their training in sociology.

**SOC 6650 Educational Sociology (3)**  
The school is one of the chief agencies of socialization and a requisite of social order in complex societies. Special consideration is given to the works of anthropologists.

**SFM 6616 Sport Finance (3)**  
This course is designed to provide students

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**SPORT AND FITNESS MANAGEMENT**

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**SFM 6600 Foundations of Sport & Fitness Management (3)**  
To introduce graduate students to the field of sport management. The course will discuss various topics related to sport management and the various sport related fields. The course will serve as an introductory course for all students in the M.S. in SFM program and will be taken the first semester of graduate school in order to serve as an introductory course for all students, especially those with no prior knowledge of the field of SFM.

**SFM 6604 Measurement and Evaluation in Sport & Fitness Management (3)**  
The course discusses the proper selection and application of tests and measurements in sport and fitness management. Practical and economical tests used by the sport and fitness managers will be examined.

**SFM 6610 Physical Education, Sport and the Law (3)**  
The course is designed to provide students an awareness and understanding of basic legal responsibilities of sport managers and coaches.

**SFM 6615 Sport Administration (3)**  
The study of the basic concepts, theories and organization of administration including financial management as applied to sport,

and proficiently.

- SFM 6650 Nutrition and Physical Performance (3)**  
The course will examine the special dietary requirements of athletes, the importance of pre- and post-event nutrition, potential nutritional problems encountered by athletes and possible ergogenic foods and drugs.
- SFM 6670 Exercise and Disease Prevention (3)**  
This course examines the scientific evidence in support of the beneficial effect of regular physical activity on reduced mortality from all causes - from diseases such as cardiovascular diseases, non insulin dependent diabetes mellitus and colon cancer, and from conditions such as obesity and high blood pressure.
- SFM 6671 Exercise Through the Lifespan (3)**  
This course will survey the effects of exercise and training programs on the growth and development of children and adolescents. It will also explore the effects of exercise on the physiological and psychological aspects of aging.
- SFM 6672 Sport Psychology (3)**  
The course is designed for the student with a vocational interest in athletic coaching within the educational environment. Psychological theories will be applied to the teaching of sports skills and the development of individuals into efficient team units.
- SFM 6673 Ethics in Sport (3)**  
The course examines ethical matters and issues relating to sport and physical activity.
- SFM 6674 Entrepreneurship in Sport (3)**  
The course provides students with an awareness and understanding of basic concepts and problems in starting a business.
- SFM 6680, 6681, 6682 Practicum in Sport and Fitness Mgt. (1-9)** The 7(spo.s97s will )-1f.000s9evsiciical sportysic(cours)(e)-2()T,

behavior and decrease inappropriate social behavior will be studied. *Prerequisite: SPE 3340 or SPE 6640 (or equivalent)*

- SPE 6630 Collaboration for Inclusion (3)**  
This course is designed to provide advanced students with an in-depth study of current literature and research on collaboration and consultation as a service delivery model to meet the challenge of educating students with disabilities in the regular classroom. Specifically, this course focuses on collaborative-related issues for teachers who work with students with disabilities. The course is premised on the federal mandate that requires educators to employ the interactive framework established by PL 94-142 (now IDEA) to assure that all students are educated in the least restrictive environment. *Prerequisite: SPE 3340 or SPE 6640*
- SPE 6631 Legal Issues in Special Education (3)**  
This course provides the special educator with relevant back-ground on the legal issues impacting students with disabilities. Advocacy issues and collaborative roles of administrators, parents, teachers, and significant others in implementing federal legislation will be addressed. The text will be supplemented by more recent case law and policy developments in special education. *Prerequisite: SPE 3340 or SPE 6640 (or equivalent)*
- SPE 6632 Assessment and Individual Programming (3)**  
A comprehensive study of the assessment process used in the field of Special Education will be examined to include both standardized assessment measures and curriculum based measures. Emphasis will be on the selection, administration, and analysis of standardized assessment instruments along with the development, administration, and analysis of curriculum based instruments in determining eligibility for placement and instructional planning. *Prerequisite: Undergraduate special education assessment course*
- SPE 6635 Meeting Instructional Needs Through Technology (3)**  
This is an advanced survey course in the classroom-adaptable and assistive technologies that are associated with the personal computer and other technologies that assist the learner with disabilities in accessing the teaching and learning environments. This course includes information on the assessment of assistive technology needs as a means of considering assistive technology and matching adaptations with individual needs in various settings. The student will explore ways to make instruction more meaningful for learning. Study will also focus on familiarity with keyboarding, disk operating systems, and tool software. Proficiency with word processing, database and

spreadsheet use in an integrated program is developed. *Prerequisite: an undergraduate course in the integration of technology into the curriculum*

- SPE 6640 Teaching Diverse Learners (3)**  
The purpose of this course is oriented toward identifying exceptional students and providing appropriate learning experiences in the classroom setting. This course is a survey of the nature and needs of exceptional children and an introduction to their educational programs.
- SPE 6694 Collaborative Teacher K-6 Practicum (3)**  
The practicum is designed to provide a supervised experience related to instruction in the area(s) of specialization (K-6). The application of skills, concepts, and principles acquired in previous coursework as well as current research will be emphasized.
- SPE 6697 Field Based Research Project (3)**  
The purpose of this course is to provide graduate students with an opportunity to design, implement, and write about quantitative or qualitative research related to their own teaching. This course will be taken at the end of the graduate program of study. *Prerequisite: SPE 6610*
- SPE 6699 Collaborative Teacher K-6 Initial Practicum (3)**  
The practicum is for those candidates that do not currently hold an undergraduate teaching certificate for Collaborative Teacher, K-6. This is a supervised experience in the inclusive K-6 classroom and for students with disabilities in a resource and/or self-contained setting. The prospective Collaborative Teacher will spend 100 clock hours in designing instructional programs that emphasize the adaptation and/or modification of the curriculum content and teaching methods that will allow the student with a disability to access the general education curriculum as outlined by the Alabama Course of Study. The prospective Collaborative Teacher will work collaboratively with the general education teacher, special education teacher, IEP committee, and other professionals to design and deliver an appropriate education for students with disabilities. *Prerequisite: completion of all course work in the core and teaching field areas for persons who do not currently hold an undergraduate teaching certificate in Collaborative Teacher, K-6*

