

## COURSE DESCRIPTIONS

### ACCOUNTING

- ACT 6625 Specialized Study in the Area of Accounting (1-3)**  
**6626** 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. 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. *Prerequisites: All business and accounting foundation courses or equivalent.*
- ACT 6650 Forensic Accounting and Fraud Examination (3)**  
 Auditing theory and procedures as applied to fraud prevention, detection, and investigation. *Prerequisites: Admission to Master of Accountancy degree program and completion of all MACC foundation and accounting prerequisites.*
- ACT 6651 Accounting Systems and Controls (3)**  
 An advanced study of accounting information systems concepts, applications, and control issues. Case studies will provide the students an opportunity to relate systems concepts to the actual problems encountered in the analysis, design, implementation, and utilization of computer-based information systems. *Prerequisites: Admission to Master of Accountancy degree program and completion of all MACC foundation and accounting prerequisites.*
- ACT 6652 Financial Accounting Research (3)**  
 An individual study of specific accounting topics utilizing the accounting authoritative literature and written and oral communication of the results of the research. *A grade of "B" or better is required. Prerequisites: Admission to Master of Accountancy degree program and completion of all MACC foundation and accounting prerequisites.*
- ACT 6653 Advanced Financial Reporting & Analysis (3)**  
 A study of advanced financial accounting topics from a practical perspective with emphasis on relevant pronouncements by professional organizations and governmental agencies. *Prerequisites: Admission to Master of Accountancy degree program and completion of all MACC foundation and accounting prerequisites.*
- ACT 6654 Advanced Auditing and Assurance Services (3)**  
 A study of advanced auditing theory, standards, practices and problems encountered in the practice of public accounting. *Prerequisites: Admission to Master of Accountancy degree program and completion of all MACC foundation and accounting prerequisites.*
- ACT 6655 Advanced Management Accounting (3)**  
 A study of accounting as related to making decisions. Course will include readings, cases, and problems dealing with managerial accounting issues, accounting concepts, budgeting and cost control using accounting information in planning and control. *Prerequisites: Admission to Master of Accountancy degree program and completion of all MACC foundation and accounting prerequisites.*
- ACT 6656 Professional Certification (3)**  
 A certification review course. This course requires co-enrollment in an independent professional certification review course designated by the School of Accountancy. Verification of enrollment is required. *Prerequisites: Admission to Master of Accountancy degree program and completion of all MACC foundation and accounting prerequisites.*
- 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: All business foundation courses 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 organizations and governmental agencies. *Prerequisites: All business foundation courses or equivalent and ACT 3391, ACT 3392, ACT 3394, ACT 3396, ACT 4494, ACT 4495 and ACT 4497.*
- ACT 6695 Accounting Research & Communication (3)**  
 An individual study of specific accounting topics and written and oral communication of the results of the study. *A grade of "B" or better is required. Prerequisites: All business foundation courses or equivalent and ACT 3391, ACT 3392, ACT 3394, ACT 3396, ACT 4494, ACT 4495 and ACT 4497.*
- ACT 6696 Accounting Information Systems (3)**  
 An advanced study of accounting information systems concepts and applications. Case studies will provide the students an opportunity to relate systems concepts to the actual problems encountered in the analysis, design, implementation, and utilization of computer-based information systems. *Prerequisites: All business foundation courses or equivalent and ACT 3391, ACT 3392, ACT 3394, ACT 3396, ACT 4494, ACT 4495 and ACT 4497.*
- ACT 6698 Advanced Auditing (3)**  
 A study of advanced auditing theory, practice and problems encountered in the practice of public accounting. *Prerequisites: All business foundation courses or equivalent and ACT 3391, ACT 3392, ACT 3394, ACT 3396, ACT 4494, ACT 4495 and ACT 4497.*

**ACT 6699 Contemporary Issues in Accounting (3)**  
A study of contemporary accounting issues and an analysis of how accounting practice is influenced by regulatory agencies, economic conditions, and professional accounting organizations. *Prerequisites: All business foundation courses or equivalent and ACT 3391, ACT 3392, ACT 3394, ACT 3396, ACT 4494, ACT 4495 and ACT 4497.*

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**ADULT EDUCATION**

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**ADE 5560 Instructional Systems Development (3)**  
This course emphasizes systematically developed course design. Special attention is given to learning and instructional systems theory.

**ADE 6600 Foundations of Adult Education (3)**  
An overview of adult education to give an understanding of characteristics of adults as learners as well as the history, philosophy, and nature of adult education. Includes exposure to fundamental adult education concepts such as lifelong learning, self-directed learning, and contract learning.

**ADE 6605 Computer Based Instructional Technologies (3)**  
This graduate level advanced survey course is designed to prepare students to use classroom adaptable technologies. Emphasis is given to historical and social context, computer systems, software, hardware, and curriculum adaptation.

**ADE 6606 Current and Emerging Instructional Technologies (3)**  
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. *Prerequisite: ADE 6605 or permission of instructor.*

**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 levels. Included is evaluation of software, audio/visual production, and instructional design using technology as a basis for instruction.

**ADE 6617 Seminar in Personnel Planning and Leadership (3)**  
This course focuses specifically on an understanding of how leadership is distributed among leaders (formal and informal) and followers within an organization. Special emphasis will be given to building leadership capacity with an organization.

**ADE 6620 Seminar in Communication and Human Relations (3)**  
An investigation of literature and research related to verbal and nonverbal communication, listening, and human relations appropriate to adult education.

**ADE 6630 Programs for Adult Education (3)**  
A study of current concepts and objectives of adult education programs, courses and activities. Includes study of adult education programs and agencies serving diverse adult learners.

**ADE 6640 Social Context of Adult Education (3)**  
This course examines the social context of adult education in terms of the impact of social, political, economic, global, and technological changes. Special emphasis will be given to the analysis of trends and issues, synthesis of complex concepts, and development of reflective practice.

**ADE 6641 Organizational Behavior and Group Dynamics (3)**  
An overview of paradigms, theories, models, and constructs of organizational cultures designed to provide students with an understanding of group dynamics within organizations.

**ADE 6653 Educational Evaluation (3)**  
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.

**ADE 6670 Adult Learning and Development (3)**  
This course is a study of the distinctive characteristics of adult development and the implications for adult learning. Emphasis will be given to the understanding of philosophical orientations related to the nature of adult learners and their learning processes; principles of motivation and effective facilitation geared toward adult learners; and social and cultural influences on adult learning.

**ADE 6674 Methods and Strategies for Teaching Adults (3)**  
A study of methods and formats used in organizing educational materials for adult learners. Emphasis is given to designing effective instruction which matches methods and strategies to educational demands. *Prerequisite: ADE 6670*

**ADE 6680 Curriculum Development for Adult Education (3)**  
A study of concepts, learning theories, materials, and media related to curriculum and program development in adult education. *Prerequisites: ADE 6600, ADE 6670 or permission of the instructor.*

**ADE 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.*

<p><b>ADE 6694 Special Problems in Adult Education (1-3)</b> A study of problem or problems using research techniques. Selection of problem to be approved by student's adviser and instructor under whom study is to be made. Study should contribute to student's program. Preparation of scholarly paper or project required and may involve oral defense.</p>	<p><b>ART 6662 Seminar in Art Education (3)</b> A review of issues and research in art education and the visual arts.</p>
<p><b>ADE 6695 Thesis (1-6)</b> The thesis must be related to both the student's concentration area and adult education. Information regarding thesis guidelines and requirements may be obtained from the Graduate School office. <i>Grading system is Pass/Fail.</i></p>	<p><b>ART 6664 Research in Art Education (3)</b> A review of contemporary research in art education and the presentation of a scholarly paper. <i>Prerequisite: ART 6662.</i></p>
<p><b>BIOLOGY</b></p>	
<p><b>ADE 6696 Practicum in Adult Education (1-3)</b> <b>6697</b> Supervised experiences related to instruction in area of specialization. Emphasis on application of skills, concepts, and principles acquired in previous courses. Grading system is Pass/Fail. <i>Prerequisite: Completion of coursework and approval of adviser are required.</i> <b>6698</b></p>	<p><b>BIO 5505 Entomology (3)</b> A study of the orders of insects with the emphasis on morphology, taxonomy, and life cycles. <i>Prerequisites: General Biology. Co-requisite: BIO L505</i></p>
<p><b>ADE 6699 Capstone (3)</b> This course is a culminating experience that helps students integrate and apply the knowledge they have gained in their program. Emphasis is placed on challenging students to view the adult educational process from many perspectives. Working independently students will create an educational portfolio to demonstrate mastery of program objectives and proof of readiness to receive a master's degree, which will be submitted in portions throughout the term/semester for feedback from the instructor and classmates. An oral presentation will be required. Grading system is Pass/Fail. <i>Prerequisites: Completion of all core (ADE 6600, ADE 6640, ADE 6670, ADE 6691) and at least four of the six required concentration classes. Students must obtain a 3.0 GPA before entering ADE 6699.</i></p>	<p><b>BIO L505 Entomology Lab (1)</b> A study of morphology, classification, and identification of insects. A collection is required. <i>Co-requisite: BIO 5505</i></p>
<p><b>ART 5581 Methods and Materials in Art (3)</b> Teaching methods, selection, organization, and use of art materials.</p>	<p><b>BIO 5513 Limnology (3)</b> A study of the physical, chemical, geological, and biological aspects of freshwater ecosystems as influenced by activities in surrounding watersheds. <i>Prerequisites: general biology, general ecology, general chemistry. Co-requisite: BIO L513</i></p>
<p><b>ART 5599 Advanced Studio Projects (3)</b> Supervised study and projects in an area not included in the student's undergraduate studies.</p>	<p><b>BIO L513 Limnology Lab (1)</b> Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. <i>Co-requisite: BIO 5513</i></p>
<p><b>ART 6605 Seminar in Art History (3)</b> Historical inquiry into art with emphasis on sources and approaches to the visual arts as they interact with other facets of culture.</p>	<p><b>BIO 5514 Food Microbiology (3)</b> This course focuses on topics in microbial metabolism, food spoilage, food preservation techniques, and foodborne pathogens and their control. Some molecular techniques will be introduced. <i>Prerequisites: BIO 3372/L372. Co-requisite: BIO L514.</i></p>
<p><b>ART 6625 Specialized Study in Area of Art (1-3)</b> <b>6626</b> An individualized study with studio art faculty. <b>6627</b> Total credit for any combination of enrollments in these courses may not exceed six semester hours. See semester hour limits listed under Course Restrictions in General Regulations section.</p>	<p><b>BIO L514 Food Microbiology Lab (3)</b> This lab focuses on advanced microbiological laboratory techniques including enumeration and analysis of bacteria in food, water, and dairy products. <i>Prerequisites: BIO 3372/L372. Co-requisite: BIO 5514.</i></p>
	<p><b>BIO 5516 Microbial Ecology (3)</b> A study of the taxonomy, diversity, and ecology of microbial populations in ecosystems, with the emphasis on the roles that they play in biogeochemical cycles, their contributions to metabolic diversity, their interactions with animals and plants, their niches and bioremediation. <i>Prerequisites: microbiology, organic chemistry. Co-requisite: BIO L516</i></p>
	<p><b>BIO L516 Microbial Ecology Lab (1)</b> Microbial ecology laboratory techniques including isolation, identification, and enumeration of microorganisms from aquatic and terrestrial environments. <i>Co-requisite: BIO 5516</i></p>

- BIO 5520 Field Vertebrate Zoology (4)**  
A study of the basics of vertebrate identification, with emphasis on phylogeny, anatomy, morphology, life histories, habitats, distributions, and conservation. *Prerequisites: General Biology, General Chemistry*
- BIO 5521 Population Ecology (3)**  
This course covers animal and plant populations, food supply, competition, disease, fecundity, distribution, and other environmental factors. Management of endangered species and protected ecosystems are included. *Prerequisites: General Ecology, Genetics, General Chemistry, Statistics. Co-requisite: BIO L521*
- BIO L521 Population Ecology Lab (1)**  
Field exercises in identifying ecological problems, formulating and testing hypotheses, and evaluating data using standard statistical methods. *Co-requisite: BIO 5521*
- BIO 5525 Field Botany (4)**  
A survey of vascular plants from different habitats in southeast Alabama. Principles of plant taxonomy, including history and systems of classification and nomenclature, the use of dichotomous keys, and general herbarium techniques. Emphasis is placed on plant identification and habitat types. *Prerequisites: General Biology, General Ecology. See semester hour limits listed under Course Restrictions in General Regulations section.*
- BIO 5530 Applied Genetics (3)**  
Advanced studies in genetics with emphasis on cytogenetics and molecular genetics. *Prerequisites: genetics, organic chemistry. Co-requisite: BIO L530*
- BIO L530 Applied Genetics Lab (1)**  
An introduction to procedures and equipment used in the study of cytogenetics and molecular genetics. *Co-requisite: BIO 5530*
- BIO 5532 Comparative Vertebrate Anatomy (3)**  
A detailed study of vertebrate organ-systems with emphasis on structural and functional morphology and evolutionary relationships. *Prerequisites: Any 3000-level BIO lecture and lab. Co-requisite: BIO L532*
- BIO L532 Comparative Vertebrate Anatomy Lab(1)**  
A detailed study of the shark, mudpuppy, and cat with emphasis on structural and functional morphology. *Prerequisites: Any 3000-level BIO lecture and lab. Co-requisite: BIO 5532*
- 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 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 sampling, analyzing, and evaluating chemical, biological, and physical agents in the workplace. *Co-requisite: BIO 5552*
- 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 5576 Special Topics (1-4)**  
Specialized topics not generally included in course offerings. *Prerequisite: Permission of instructor*
- BIO 5578 Cell Biology (3)**  
This course covers cell structure and function with the emphasis on biochemical and molecular mechanisms. Topics include cell movement, differentiation, and recognition. *Prerequisites: Genetics, Microbiology, Organic chemistry. Co-requisite: BIO L578*
- BIO L578 Cell Biology Lab (1)**  
Experimental approaches for studying cells at the biochemical and molecular levels. *Co-requisite: BIO 5578*
- BIO 5579 Environmental Assessment (3)**  
An examination of theory and practices required in performing stream environmental assessment as currently practiced by state and federal agencies in their attempt to preserve biological integrity. Sustainable management of natural resources and a systems approach to environmental problem solving will be emphasized. Topics covered include water quality, habitat assessment, indicator species used in ecological inventory with a concentration on macro invertebrate and fish assemblages, and the index of biological integrity. *Prerequisites: BIO 1101/L101; 2202/L202 or 2229/L229. Corequisite: BIO L579.*
- BIO L579 Environmental Assessment Lab (1)**  
Laboratory instruction and hands-on field training regarding stream environmental assessment as currently practiced by state agencies in their attempt to preserve biological integrity. Topics covered include measurement of water quality, habitat, and practice sampling techniques, with a concentration on fish and macro invertebrate assemblages. In addition, students will learn the use of the index of biological integrity using their own collections of fish assemblages. *Prerequisites: BIO 1101/L101; 2202/L202 or 2229/L229. Corequisite: BIO 5579.*
- BIO 5580 Histology (3)**  
A study of the microscopic anatomy and function of cell types and tissues of mammalian organs. *Prerequisite: general biology. Co-requisite: BIO L580*
- BIO L580 Histology Lab (1)**  
A study of the microscopic anatomy of cell types and tissues of mammalian organs. *Co-requisite: BIO 5580*
- BIO 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)**  
Additional information is indexed under "Guided Independent Research and Study."
- BIO 5594 Guided Independent Study (1-4)**  
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 in natural ecosystems and human affairs, with the emphasis on food plants, trees, and medicinal plants. *Prerequisites: Any upper-level botany course. Co-requisite: BIO L606*

- BIO L606 Economic Botany Lab (1)**  
A study of the basic plant anatomy and taxonomy of plants of significance. *Co-requisite: BIO 6606*
- BIO 6610 Principles and Methods for the Teaching Assistant (1-2)**  
This course will provide each student with significant “hands-on” experiences in college level instruction and develop the knowledge and skills teachers need to implement inquiry-based instruction. Students will work under the direct mentorship and supervision of the course instructor and will be trained in techniques, current presentations, and teaching methods of laboratory-based biology. *(Students seeking one (1) semester hour credit will be required to assist in one laboratory course. Students seeking two (2) semester hours credit will be required to assist in two laboratory courses or laboratory courses with multiple sections.)*
- BIO 6617 Seminar in Environmental and Biological Sciences (1)**  
**6618** Presentations on interdisciplinary principles and concepts, current issues, and new studies and research from a variety of fields, with environmental science serving as a unifying theme. Faculty members and outside speakers will present guest lectures. Candidates for the master’s degree in the thesis option will present their research findings and conclusions.
- BIO 6621 Environmental Toxicology (3)**  
This course is a foundation for scientific decision-making involving contaminants and their effects on biological systems. It covers the basic principles of environmental toxicology including bioaccumulation, the biological effects of toxicants from the molecular to global level of organization, and a basic understanding of the risk of environmental pollutants and the science of risk assessment. *Prerequisites: Eight semester hours or equivalent of chemistry*
- BIO 6624 Public Health (3)**  
The impact of the environment on humans as well as the human impact on the environment serve as the dual focus of this course. Environmental agents of physical, chemical, and biological nature with adverse effect on human health will be considered. The physiological, molecular, cellular, genetic, and biochemical mechanisms of action of environmental carcinogens, toxins, pollutant, and other disease-causing environmental agents and the interaction of various environmental agents with biological systems will be addressed.
- BIO 6625 Specialized Study in Biology (1-4)**  
**6626** The student has the opportunity to engage in intensive study of a particular subject or learn a pertinent skill, which fits his/her academic and/or professional needs but is not available in the regular curriculum. This study may include educational activities or training outside of the University. The student will follow the guidelines that the Department established for the supervision and the pursuance of this study. Requires approval of the student’s adviser and chairs.
- BIO 6630 Pollution Science (3)**  
A study of pollution of atmosphere, surface water, and soil and groundwater from animate activities and inanimate processes. Adverse effects, fate, and transport of pollutants in air, soil, and water. *Prerequisite: general chemistry.*
- BIO L630 Pollution Science Lab (1)**  
Theory and analytical techniques used in both field and laboratory for the analysis of air, water, and soil contaminants. *Prerequisite: general chemistry*
- BIO 6643 Biological Chemistry (3)**  
Biological Chemistry emphasizes the classification, structure, function and metabolism of proteins, carbohydrates, lipids and nucleic acids; intermediary metabolism and bioenergetics; enzyme structure, function and kinetics; and storage and expression of genetic information. *Prerequisites: CHM 3343/L343*
- BIO 6645 Biotechnology Techniques (3)**  
Biotechnology Techniques laboratory emphasizes the fundamental theory and techniques used in the isolation, characterization, and study of biochemical molecules. *Prerequisites: CHM 3343/L343*
- BIO 6650 Spatial Analysis Using Geographical Information Systems (3)**  
A graduate level GIS course geared for beginners that presents the understanding behind the four functional and physical components of a GIS: data input; storage and retrieval; manipulation; and data output. Multiple GIS applications are also discussed. *Prerequisites: BIO 6630, BIO L630, or permission of chair. Co-requisite: BIO L650*
- BIO L650 Spatial Analysis Using Geographical Information Systems Lab (1)**  
This lab is intended for average computer users with little or no experience in ArcView GIS or any other GIS software. At the end of the labs, students will be able to use ArcView to view, query, analyze, chart, and map geographic data. *Co-requisite: BIO 6650.*
- BIO 6660 Issues in Aquatic Ecology (3)**  
Case studies on the overexploitation and degradation of aquatic ecosystems and their resources, with a primary focus on freshwater systems. *Prerequisite: An undergraduate ecology course is highly recommended.*
- BIO 6661 Conservation Biology (3)**  
Examination of the principles, practices, and philosophy of measuring, maintaining, and enhancing biological diversity. The course focuses on the applications of ecology, population biology, and genetics of the conservation of keystone and rare species and ecosystems. *Prerequisite: An undergraduate ecology course is highly recommended.*
- BIO 6662 Invasive Species Biology (3)**  
This course will familiarize students with the principles of ecological invasions and factors affecting the spread and impacts of invasive species. Students

will also become familiar with major sources of exotic species introductions, and methods available for prevention and control.

**BIO 6665 Sustainable Development (3)**  
This course will increase student awareness of sustainability issues concerning the future survival of humans and other organisms on the planet. The course specifically covers the following: biological diversity trends, human population growth, agriculture and food consumption issues, water use and supplies, global warming and effects on biological diversity, sustainable fisheries, forest products and services, and other issues.

**BIO 6670 Special Topics (1-4)**  
**6671** Specialized topics not generally included in course offerings. A maximum total of 4 semester hours is allowed for program credit.

**BIO 6691 Research Methodology and Experimental Design (3)**  
This course will include hands-on statistical experience emphasizing hypothesis testing using a statistical software system. It will combine several elements of research methodology including developing a grant proposal that will include topic selection, literature search, question formulation, methods, 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. *Grading system is Pass / Fail. Prerequisites: 3.0 GPA and permission of the Chair of the Biological and Environmental Sciences department.*

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#### BIOMEDICAL SCIENCE

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**BMS 6610 Healthcare Policies, Rules, and Regulation (3)**  
Healthcare policy impacts the lives of patients as well as healthcare providers. This course explores the foundations of healthcare delivery, policies, rules, and regulations.

**BMS 6615 Medical Microbiology and Immunology (3)**  
Emphasizes the basic clinical applications of microbiology and immunology in the treatment and prevention of infectious diseases.

**BMS 6620 Neuroscience (3)**  
Introduces the structure and functions of the nervous system. Special attention will be placed on the functional systems of the brain and the senses.

**BMS 6625 Medical Cell Biology (3)**  
Focuses on the cellular and molecular bases of human diseases and disease processes.

**BMS 6630 Medical Pharmacology (3)**  
This course reviews the beneficial and harmful actions of drugs on the tissues and organs of the body. Provides the foundation for understanding drug actions in health and disease.

**BMS 6635 Medical Physiology (3)**  
Reviews the functions of the various organ systems and their integration in the human body at an advanced level.

**BMS 6640 Anatomical Sciences (7)**  
This intensive course is organized by the four major body regions: upper limbs; back and lower limbs; thorax, abdomen and pelvis; and head and neck. Histology and embryology will be taught within this course.

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#### BUSINESS

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**BUS 5501 Survey of Business Concepts I (3)**  
Survey of Business Concepts I provides a survey of key concepts in Management, Marketing, Management Information Systems, and Law that provides a foundation for further study in the MSM or MSHRM courses. Course will not transfer to any other programs. *Students must earn a grade of "B" or better in the course.*

**BUS 5502 Survey of Business Concepts II (3)**  
Survey of Business Concepts II provides a study of key concepts in Accounting, Finance, Quantitative Management, and Economics that provides a foundation for further study in the MSM or MSHRM courses. Course will not transfer to any other programs. *Students must earn a grade of "B" or better in the course.*

**BUS 6605 Business & Professional Communication (3)**  
Development of skills to assist managers to communicate to both internal and external audiences, to conduct meetings, to negotiate, and to resolve conflict. Emphasis is placed on oral and written presentation skills using state of the art technologies and presentation software. *Prerequisite: All business foundation courses or equivalent.*

**BUS 6610 Business Research Design (3)**  
Designed for the student to develop and demonstrate competency in business research methodology and techniques. This course teaches the business student proper research techniques and includes a research proposal. *A grade of "B" or better is required. Prerequisite: All business foundation courses or equivalent.*

**BUS 6612 Applied Business Research (3)**  
The study of applied research of business problems to develop managerial skills in the preparation and evaluation of a research project. *A grade of "B" or better is required. Prerequisite: All business foundation courses or equivalent.*

- BUS 6613 Seminar in Business (3)**  
Study and analysis of current topics on the leading edge of business. A combination of core material, readings, and research reports on contemporary aspects of business. *Prerequisite: All business foundation courses or equivalent.*
- BUS 6625 Specialized Study in the Area of Business Administration (1-3)**  
**6626**  
**6627** Study of problem or problems using research techniques. Selection of the problems must be approved by the student's adviser, the instructor under whom the study is to be made, and the appropriate dean. The study should contribute to the student's program. Preparation of a scholarly paper is required and many involve 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 on once in student's program. *Prerequisite: All business foundation courses or equivalent.*

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**CHEMISTRY**

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- CHM 5500 Special Topics in Chemistry (3)**  
A study of topics of special interest, such as advanced physical chemistry, advanced analytical chemistry, advanced organic, group theory, surface chemistry, and colloid chemistry. *Prerequisites: CHM 2242 and CHM 3343*
- CHM 5503 Advanced Organic Chemistry (3)**  
A more in-depth study of many of the topics studied in Organic Chemistry I and II. Topics will include reaction mechanisms, synthetic methods, and structure determination using spectroscopic techniques. *Prerequisite: CHM 3357*
- CHM 5544 Advanced Inorganic Chemistry (3)**  
This course covers the spectroscopy of inorganic molecules, detailed molecular orbital applications, descriptive chemistry of the transition elements, including organometallic and bioorganic compounds. *Prerequisites: CHM 2242, 5552 and L552*
- CHM L544 Advanced Inorganic Laboratory (1)**  
A study of the preparation and characterization of inorganic compounds. Experience will be provided in techniques such as using a tube furnace and handling air-sensitive compounds with a glove bag and Schlenk line. *Co-requisite or prerequisite: CHM 5544*
- CHM 5545 Instrumental Analysis (3)**  
A study of the operating principles of modern analytical instrumentation for determining composition and concentration. *Prerequisites: CHM 2242, CHM 3343; PHY 2253 and L253 or PHY 2263 and L263. Co-requisite: CHM L545*
- CHM L545 Instrumental Analysis Laboratory (1)**  
The practical application of select modern analytical instruments to qualitative and quantitative examination of matter. Considerable attention is given to the instrument and elementary electronics involved in each. *Co-requisite: CHM 5545*
- CHM 5552 Physical Chemistry I (3)**  
A study of the theory and applications of thermodynamics, reaction kinetics, and transport properties with an emphasis on the description of ideal/non ideal gasses and solutions. *Prerequisite: CHM 3343; PHY 2253 and L253 or PHY 2263 and L263; MTH 1126. Co-requisite: CHM L552*
- 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 Specialized Study in Area of Chemistry (1-4)**  
**6626**  
**6627** 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 of parole and probation as methods of social control with emphasis on the implications of their social impact on field practice. This course will also investigate non-institutional methods of correctional practices relating to juveniles and adults.
- CJ 6610 Principles of Administration (3)**  
A survey of the basic principles and functions of personnel administration with special attention paid to criminal justice applications.

- CJ 6620 Current Trends in Criminal Law (3)**  
A critical review through case studies of recent trends and developments affecting the interpretation of major portions of the United States Constitution which safeguard personal liberties and those which safeguard the public; an examination of principal trends and changes in the judicial processes in the light of historical experience.
- CJ 6621 Current Issues in Corrections (3)**  
An analysis of the contemporary problems surrounding corrections. Examples of topics include, but are not limited to, police unionization, court reforms, correctional problems, community-based correctional philosophy, comparative issues, and contemporary problems related to correctional officers' retention and employment practices.
- CJ 6622 Seminar in Administration of Justice (3)**  
A critical examination of the administration of the criminal justice system in America, including the myths and misconceptions it generates, the controversial issues and trends it produces, and the current and future policies and administrative decision making it promotes.
- CJ 6624 Court Administration (3)**  
A study of the judicial process from the standpoint of its situational and legal basis, organization and management, and the technical aspects of the judicial function at both trial and appellate levels.
- CJ 6625 Specialized Study (3)**  
This course provides the student an opportunity to pursue in-depth study on a topic or issue of personal interest under the guidance and direction of a department faculty member. *May be repeated up to a total of six credit hours. See semester hour limits listed under Course Restrictions in General Regulations section.*
- CJ 6630 Juvenile Justice (3)**  
An examination of the agencies, institutions, and personnel that work with juvenile offenders. Of special interest will be how the police, courts and correctional agencies interact and deal with juvenile offenders, as well as a review of the current issues and proposals being discussed at the national level.
- CJ 6635 Community-Based Corrections/Correctional Systems (3)**  
This course will advance the concept of the development of programs for offenders which substitute treatment in the community for institutionalization or imprisonment. Collectively, these programs constitute what is termed "Community-Based Corrections."
- CJ 6636 Criminological Theory (3)**  
An in-depth overview of major criminological perspectives as well as their nature and extent, especially those found in the United States, and an analysis of the etiology of criminal behavior, criminal law, and the societal reaction to criminals.
- CJ 6638 Seminar in Civil Liberties Related to Corrections (3)**  
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.
- CJ 6640 Seminar in Law Enforcement (3)**  
An in-depth examination of the various issues and problems currently being experienced in American policing.
- CJ 6644 Administrative Law (3)**  
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.
- CJ 6649 Statistics for Criminal Justice Research (3)**  
This course provides a review of advanced statistical techniques with emphasis upon their application in a criminal justice setting.
- CJ 6650 Survey of Research Methods in Criminal Justice (3)**  
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.*
- CJ 6652 Seminar in Corrections (3)**  
An in-depth examination of the various issues and problems in corrections with a special emphasis relating to administration and management.
- CJ 6655 Selected Topics in Criminal Justice (3)**  
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.*
- CJ 6660 Advanced Readings in Criminal Justice (3)**  
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.*
- CJ 6671 Organization Theory (3)**  
An examination of the theories of modern criminal justice organization, including current trends and development.

- CJ 6692 Agency Experience (3)**  
A supervised practice in an approved criminal justice agency. Reserved for students with no prior experience in a criminal justice setting.
- CJ 6693 Master's Project (3)**  
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.
- CJ 6694 Thesis Practicum (3)**  
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 "IP" until the completion of the thesis.*
- CJ 6695 Thesis (3)**  
The completion and oral defense of the thesis. *Grading system is Pass / Fail.*
- COM 6620 Contemporary Issues in Strategic Communication (3)**  
Students will examine the strategic use of emerging media in communication campaigns. Topics include Internet usage, audience analysis, media relations, public relations media plans, social media advertising, blogs, electronic publishing and web design.
- COM 6625 Specialized Study in Area of Speech  
6626 Communication (1-3)  
6627**  
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, course supervisor, and department chair. *Total credit for any combination of enrollments in these courses may not exceed six hours. See semester hour limits listed under Course Restrictions in General Regulations section. Total specialized study hours may not exceed six semester hours.*

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**COMMUNICATION STUDIES**

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- COM 5531 Interpersonal Communication (3)**  
A study of theories of Communication behavior in relatively unstructured face-to-face situations, including small-group discussion.
- COM 5541 Oral Interpretation (3)**  
A study and application of the principles and practices of oral interpretation (reading) of literature, including individual and ensemble performance.
- COM 5542 Rhetoric (3)**  
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.
- COM 6600 Communication and Influence (3)**  
This class is designed to increase the students' understanding of and ability to use social media in an advocacy role. Students will study argument, interaction and political communication in personal, print, and online environments. Emphasis is placed on persuasion theories and the role of messages as agents for change.
- COM 6605 Strategic Communication Theories (3)**  
Students will explore communication theories from classical to current times along with their practical applications. Special attention is placed on crisis communication and the role of new technologies.
- COM 6610 Leadership and Media Strategies (3)**  
Using leadership skills to approach communication effectively with a variety of media tools. Topics include media relations, media characteristics, media decisions, the impact of emerging communication technologies on the communication process, mentoring communication skills, presentation skills and media budgets.
- COM 6630 Strategic Communication and Emerging Media (3)**  
Students will examine the strategic use of emerging media in communication campaigns. Topics include Internet usage, audience analysis, media relations, public relations media plans, social media advertising, blogs, electronic publishing and web design.
- COM 6635 Strategic Organizational Communication (3)**  
This course allows students to discuss the impact of mediated communications within organizations and how to use digital and conventional communication technologies to reach diverse publics.
- COM 6691 Strategic Communication Inquiry and Research (3)**  
The examination and evaluation of research methods used with strategic communication data. Students will apply this knowledge in a study of communication problems. *A grade of "B" or better is required.*
- COM 6699 Strategic Communication Capstone (3)**  
This course provides a culminating experience in which students will integrate the theoretical and practical strategic communication skills developed in prior courses. Students will apply these skills by developing an effective communication campaign. *A grade of "B" or better is required. This course is open only to students who have completed 18 hours of coursework in the program.*

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**COUNSELING**

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- CP 6600 Professional Orientation and Ethics (3)**  
An introductory course to the world of professional counseling. Course content includes historical overview, concepts, approaches, philosophy and development of the counseling profession. Professional roles, organizations, credentialing, legal/ethical issues, and professional standards of care are covered. *Prerequisites: Recommended first course.*

- CP 6601 Legal, Ethical, and Professional Standards (3)**  
This course assists counseling personnel in acquiring information and understanding necessary to effectively deal with legal, ethical and professional standards of the counseling profession.
- CP 6602 Seminar in the Prevention/Treatment of Chemical Dependency (3)**  
An examination of specified issues which must be addressed to promote successful recovery in the treatment of chemical dependency.
- CP 6605 Foundations of Mental Health Counseling (3)**  
A study of the historical, philosophical, societal, cultural, economic, and political dimensions within mental health practice. This course will address the professional identity, functions, and issues facing mental health practitioners: principles, theories, and practice of community intervention and the human services network; fiscal and administrative management of programs; and public policy and governmental relations impacting mental health services.
- CP 6610 Facilitation Skills and Counseling Techniques (3)**  
A focus on the development and application of basic facilitation skills necessary for becoming an effective helping professional. Skills are developed through a combination of didactic, experiential, and demonstrated learning activities to train the beginning counselor in the establishment and maintenance of therapeutic relationships.
- CP 6616 Treatment of Addictive Family Diseases (3)**  
A study of typical characteristics of dysfunctional families. Provides the basis for suggested intervention techniques, appropriate areas of family education, and guidelines for effective therapy.
- CP 6617 Treatment Theories and Modalities of Addictive Disease (3)**  
A study of historical perspectives and the most effective treatment and assessment approaches of addictive diseases.
- CP 6620 Readings in Counseling and Psychology (1-3)**  
**6621** An independent exploration of the literature related  
**6622** to verbal and nonverbal communication, listening, and human relations under the supervision of a faculty member. An examination will be required upon the conclusion of the course. *This course may be offered as a seminar. See semester hour limits listed under Course Restrictions in General Regulations section.*
- CP 6625 Specialized Study in Counseling (1-3)**  
**6626** A study of a problem or a topic using research  
**6627** 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.*
- CP 6634 Drug Education, Prevention, and Intervention (3)**  
A study of commonly abused drugs, drug abuse prevention, and treatment techniques. Examines characteristics of people at high risk to become substance abusers/addicted.
- CP 6635 Crisis Response Management (3)**  
This course provides community personnel, school personnel and other education and/or health professionals/paraprofessionals information about the nature of global and local disasters. Course content includes appropriate responses to a variety of crisis scenarios and information on major theories of crisis intervention.
- CP 6636 Foundations of Student Affairs (3)**  
This course is designed to provide a comprehensive introduction to the field of student affairs in higher education through a review of its historical and philosophical influences; purpose, roles, and functions; and contemporary issues and trends.
- 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 (3)**  
This course provides supervised student affairs counseling experiences in the college environment. The experience is accompanied by scheduled on-campus supervision with the university supervisor. Internship equals 300 clock hours, to include 120 hours of direct student affairs service. *Prerequisite: CP 6650. Grading system is Pass/Fail.*
- CP 6639 Internship: Student Affairs Counseling (3)**  
This course provides supervised student affairs counseling experiences in the college environment. The experience is accompanied by scheduled on-campus supervision with the university supervisor. Internship equals 300 clock hours, to include 120 hours of direct student affairs service. *Prerequisite: CP 6638. Grading system is Pass/Fail.*
- CP 6641 School Counseling and Program Management (3)**  
In this course students will study planning, designing, implementing, and evaluating a comprehensive developmental school guidance program. The school counselor's role as an advocate and school leader will be emphasized. Historical perspective, new academic achievement, guidance curriculum and ethical and legal issues will be included.
- CP 6642 Group Dynamics and Counseling (3)**  
The study of group dynamics and group counseling theories, including ethics, group leadership styles, types of groups, group counseling methods and skills, group developmental stages, and therapeutic factors of group work. Experiential activities included. *Prerequisite: CP 6610*

- CP 6644 Community Counseling Services (3)**  
A study of multifaceted, comprehensive, community counseling and school psychological services, needs assessment, resource identification, program development, and program evaluation. Alternative models of service delivery and alternative sources of funding and program regulation are explored.
- CP 6649 Theories of Counseling (3)**  
A study of the major theoretical approaches in counseling including the affective, behavioral, and cognitive theories. Application of theories to basic types of problems in the counseling relationship is included. Includes case studies, class demonstrations and role-playing.
- CP 6650 Practicum (3)**  
This study provides an opportunity for the student to perform, under supervision, a variety of activities that a regularly employed professional counselor would perform. Practicum provides for the development of counseling skills under supervision. The student must complete 100 clock hours including a minimum of 40 hours of direct service with clients. Experiences are accompanied by regularly scheduled, weekly on campus group supervision designed to provide opportunity for analysis and evaluation of supervised activity. Students enrolled in practicum must complete requirements in program major area. Students changing majors will be required to retake practicum in another program area. *Grading system is Pass / Fail. Prerequisites: Permission of instructor and department chair required. CP 6600, CP 6610, CP 6642, CP 6649, PSY 6669, PSY 6670 Students enrolled in rehabilitation counseling are required to take CP 6652 prior to practicum.*
- CP 6651 Counseling Diverse Populations (3)**  
A study of the psychological and sociological factors relative to cultural diversity. Special emphasis is placed on current practices utilized in counseling interventions with culturally diverse populations. Special emphasis is placed on current practices utilized in counseling interventions with diverse populations as well as increasing counselor sensitivity to the unique needs and experiences of such populations.
- CP 6652 Rehabilitation Delivery and Process (3)**  
A study of the rehabilitation process including historical developments, philosophical bases, and legal aspects, with an emphasis on the operational aspects of rehabilitation service delivery systems.
- CP 6655 Practicum: Social Services (3)**  
This study provides an opportunity for the student to perform, under supervision, a variety of activities that a regularly employed social service counselor would perform. Practicum provides for the development of social service counseling skills under supervision. The student must complete 100 clock hours including a minimum of 40 hours of direct service with clients. Experiences are accompanied by regularly scheduled, weekly on-campus group supervision designed to provide opportunity for analysis and evaluation of supervised activity. *Grading system is Pass / Fail. Prerequisites: Permission of instructor and department chair required. CP 6600, CP 6610, CP 6642, CP 6649. This practicum does NOT meet criteria for licensure.*
- CP 6656 Marriage, Family, and Sex Therapy Counseling (3)**  
The course is designed to provide the student with a conceptual framework for dealing with marriage, family, and sex problems. Students will be equipped with the skills necessary for working with all members of the family.
- CP 6657 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. Course equals 300 clock hours of internship, to include 120 hours of direct student service. *Grading system is Pass/Fail. Prerequisite: CP 6650.*
- 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. *Grading system is Pass/Fail. 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. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*
- CP 6660 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 clock 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. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*
- CP 6661 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 sched-

uled, weekly group supervision. Course equals 300 clock 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. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*

**CP 6662 Internship: Community Counseling (3)**

This course provides supervised, on-the-job, experiences in Community Counseling. These field experiences are accompanied by weekly, on-campus, supervised sessions. Students must receive individual and group supervision. Course equals 300 clock 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. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*

**CP 6663 Internship: Community Counseling (3)**

This course provides supervised, on-the-job, experiences in Community Counseling. These field experiences are accompanied by weekly, on-campus, supervised sessions. Students must receive individual and group supervision. Course equals 300 clock 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. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*

**CP 6665 Internship: Addictions Counseling (3)**

This course provides an opportunity for the student to perform a variety of activities that a regularly employed professional counselor in an Addictions Counseling Treatment setting would be expected to perform. Experiences are accompanied by regularly scheduled, weekly group supervision. Course equals 300 clock 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. *Grading system is Pass/Fail.*

**CP 6666 Internship: Addictions Counseling (3)**

This course provides an opportunity for the student to perform a variety of activities that a regularly employed professional counselor in an Addictions Counseling Treatment setting would be expected to perform. Experiences are accompanied by regularly scheduled, weekly group supervision. Course equals 300 clock 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. *Grading system is Pass/Fail.*

**CP 6670 Internship: Rehabilitation Counseling (3)**

This course provides supervised experiences in a rehabilitation setting. The experience will be accompanied by scheduled on campus supervision with the university supervisor. Course equals 300

clock 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. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*

**CP 6671 Internship: Rehabilitation Counseling (3)**

This course provides supervised experience in a rehabilitation setting. The experience will be accompanied by scheduled on campus supervision with the university supervisor. Course equals 300 clock 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. *Grading system is Pass / Fail. Prerequisite: CP 6650*

**CP 6680 Seminar: Counseling Approaches to Working with Hearing Impairment (3)**

This course is taken in conjunction with the practicum/internship in rehabilitation counseling, offers students an opportunity to apply medical, psychological and sociological research/techniques to counseling with individuals who are hearing impaired. *Prerequisite: Permission of instructor.*

**CP 6681 Seminar: Counseling Approaches to Working with Visual Impairment (3)**

This course is taken in conjunction with the practicum/internship in rehabilitation counseling, offers students an opportunity to apply medical, psychological and sociological research/techniques to counseling with individuals who are visually impaired. *Prerequisite: Permission of instructor.*

**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. *Students enrolled in the Counseling and Psychology programs are required to take CP 6691 Research Methodology only at Troy University. This research course may not be substituted with another Troy University research course or one transferred from another university. 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.*
- CP 7701 Seminar in Counseling and Student Personnel Work (3)**  
Individual readings and conferences, group discussions and reports focusing on the advanced student's special interest in counseling and human development. Emphasizes research findings.
- CP 7702 Advanced Theories and Techniques of Counseling (3)**  
An in-depth study of current viable theories of counseling utilizing techniques appropriate for each framework. Some areas to be covered include the cognitive, affective, and eclectic approaches. *Prerequisite: CP 6649 or equivalent*
- CP 7725 Advanced Studies in Counseling (1-3)**  
**7726** 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.*
- CP 7753 Internship: Advanced Counseling (1-3)**  
**7754** This course provides advanced graduate students with full-time, supervised, on-the-job experience in settings appropriate to their area of specialization. Experiences accompanied by weekly on-campus meetings designed to provide opportunity for analysis and evaluation of supervised activity. *Grading system is Pass/Fail.*
- CP 7791 Research Seminar (1-3)**  
**7792** This course provides in-depth assistance to prepare students for development of, research for, and preparation of theses or field project proposal.  
**7793**
- CP 7794 Field Project (3)**  
An independent study of a problem of a practical nature which is encountered in a field setting. A proposal for the study and a written report of the findings must be approved by the student's advisory committee. The advisory committee will administer an oral examination covering the research findings. *Grading system is Pass/Fail. Enrollment limited to Ed.S. students.*
- CP 7795 Thesis (3-6)**  
**7796** Research for and preparation of a scholarly paper related to a counseling and guidance problem or situation under the supervision of the student's advisory committee. *Grading system is Pass/Fail. Enrollment limited to Ed.S. students.*
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- COMPUTER SCIENCE**
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- CS 5543 Software Engineering (3)**  
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. *Prerequisite: CS 4447 or CS 5547*
- CS 5545 Computer Architecture (3)**  
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 minicomputer architectures, specialized computer architectures, and distributed data processing architectures. *Prerequisite: CS 3310, CS 3365 or CS 4445*
- CS 5547 Systems Analysis and Design (3)**  
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 4447 recommended)*
- CS 5549 Analysis of Algorithms (3)**  
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. *Prerequisite: CS 3323*

- CS 5550 Operating Systems Principles (3)**  
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. Prerequisite: CS 3323
- CS 6625 Specialized Study in Computer Science (1-3)**  
**6626** 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.*  
**6627**
- CS 6640 Data Base Management Concepts (3)**  
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. Prerequisite: CS 3323
- CS 6641 Society and Information Systems (3)**  
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.
- CS 6643 Theory and Design of Compilers (3)**  
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. Prerequisite: CS 3372 or 3370
- CS 6646 Information Systems for Operations and Management (3)**  
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. Prerequisite: CS 5547
- CS 6647 Simulation and Modeling (3)**  
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 general purpose and simulation languages re presented in this course. Prerequisite: CS 5547
- CS 6648 Operations Research (3)**  
A systems approach is explored as it relates to using various algorithms to solve different classes of managerial problems with a computer. Prerequisite: CS 3325 or CS 5547
- CS 6649 Special Topics in Computer Science (3)**  
A series of advanced topics in areas of computer science is offered. The course details a structured discussion of varied subjects to include technological updates, a more intense study of topics covered in other course offerings, and an introduction to advanced concepts such as artificial intelligence, the theory of computability, and formal languages. Prerequisites: 12 semester hours of graduate credit
- CS 6650 Distributed System Principles (3)**  
The invention of high-speed computer networks make it possible to easily put together computing systems composed of large numbers of computers connected by a high-speed network called a Distributive System. This course presents the terminology, concepts, problems and implementations of such systems. Specific Object-Based Distributive Systems like Cobra, DCOM and Java Remote Method Invocation (RMI).
- CS 6651 Artificial Intelligence (3)**  
Intelligent agents, problem-solving, search, knowledge representation and reasoning, planning, and reasoning with uncertain knowledge. Machine learning. Design and implementation of artificial intelligence systems including expert systems, planning, logic and constraint programming.
- CS 6652 XML Technology Principles (3)**  
This course discusses Extended Markup Language (XML) technology. Topics discussed are XML document creation, document rule definitions such as document type definition (DTD and Schema), XML style languages (XSL and XSLT). Also XML applications and how programming language can process documents are presented. Prerequisite: CS 3323
- CS 6653 Topics in Software Security and Reliability (3)**  
This course discusses Software Quality, Fundamentals of Reliability and Rates of Failure, Fundamentals of Data and Distributions, Reliability Testing, Software Growth Models, Software Security and Safety Fundamentals, Software Testing and Stopping Rules (Project Topic I), System Reliability and Redundancy, and Integrated and Internet Software System Reliability Security (Project Topic II). Prerequisite: Permission of the instructor.
- CS 6654 Topics in Software Engineering (3)**  
The course extends the topics of the Software Engineering course in which the principles of software development are covered.. This course covers advanced topics in software engineering, including software architecture, design patterns, multi-media

- software, embedded software engineering, and knowledge-based approaches to software engineering. The course also includes a number of case studies. Participants are to write a paper on a topic in Software Engineering. *Prerequisite: CS 5547*
- CS 6655 Digital Logic Design – Principles and Practices with Emphasis on Testable Semi-custom Circuits (3)**  
Combinational circuit analysis including hazard detection; Number systems and codes; Switching algebra; Combinational circuit design including PLA and MSI techniques; IC logic families; Flip-flop properties; Switching algebra: special properties - symmetric functions, unate functions, threshold functions, Boolean difference, functional decomposition; Introduction to sequential circuits— sequential circuit analysis; Pulse mode sequential circuits - state reduction, incompletely specified machines, state assignment, series-parallel decomposition; Fundamental mode sequential circuits -race, hazards, state assignment; Testing aspects of digital systems - failure and fault models, deterministic test generation for combinational circuits, testing sequential Circuits, state identification, testing memories and complex LSI/VLSI circuits, design for testability techniques: scan techniques, built-in self-test (BST), easily testable net-work structures; Semicustom and MSI design; Special sequential circuits including sequential integrated circuits. *Prerequisite: CS 5545*
- CS 6656 Design and Testing of Reliable Digital Systems (3)**  
Introduction to digital circuits testing. Fault model and test generation for combinational circuits—fault table, path sensitization, ENF, SPOOF and Boolean difference methods. Fault detection in sequential circuits—state identification sequences and designing checking experiments for sequential machines. Design for testability—readily diagnosable and counter-cycle (CC) type sequential machines. Random testing of digital combinational and sequential circuits—continuous-parameter Markow model and error latency mode. Built-in self-test (BIST) in VLSI. Data compression in VLSI BIST — 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 6660 Algorithmic Graph Theory (3)**  
Theory and algorithms for solving computational problems in graphs and hypergraphs. The topics may include minimum transversals, maximum matchings, trees and bipartite graphs, chordal graphs, planar graphs and graph coloring, hypertrees, chordal hypergraphs, planar hypergraphs and hypergraph coloring, colorability, perfection, and chromatic spectrum. *Prerequisites: CS 3323 and MTH 4420, or permission of the instructor.*
- CS 6662 Special Topics in Game Design (3)**  
This course covers key areas of game design and implementation. Topics include game engines, 3D graphics, game Artificial Intelligence, and terrain modeling. *Prerequisite: CS 3323, CS 3332 or CS 5543*
- CS 6664 High-Performance Computing (3)**  
This course teaches the methods and technology of high-performance computing and its usage in solving scientific problems. Topics focus on advanced computer architectures, parallel algorithms, parallel languages, performance-oriented computing, and grid and cluster computing. *Prerequisite: CS 3323*
- CS 6666 Computer Graphics (3)**  
This course covers the theory, design, implementation and applications of computer graphics. Topics include common graphics hardware, 2D and 3D transformations and viewing, basic raster graphics, concepts image processing, modeling, rendering, illumination, shadows, textures, programmable shaders, and animation. *Prerequisite: CS 3323*
- CS 6668 Network Security (3)**  
The course covers theory and practice of communication security in computer systems and networks. Topics include authentication and access control, virtual networks, shared key encryption, public key encryption, and digital signature. *Prerequisite: CS 4445*
- 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 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 the student's advisor, the faculty course supervisor,

and the department chair person. *Total credit for any combination of enrollments in these courses may not exceed six semester hours. See semester hour limits listed under Course Restrictions in General Regulations section.*

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**EDUCATIONAL ADMINISTRATION & LEADERSHIP**

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**EAL 6609 Communication and Problem Solving (3)**  
This course is designed to develop communication and problem solving skills required for effective leadership of people, processes, and organizations. Emphasis will be placed on verbal, interpersonal, and written communication, group dynamics, conflict resolution and consensus building. Special attention will be given to working diverse populations.

**EAL 6625 Specialized Topics in Educational Leadership (3)**  
A seminar concerned with an in-depth examination of one topic that is acutely important to educational leadership. Students are expected to use primary resources, journals, and the Internet to research and discuss the topic. The primary format of the class will be discussion, although group exercises, individual presentations and written response will also be used.

**EAL 6633 Leadership (3)**  
This course deals with the development of knowledge and skills needed for the responsibilities and major functions of educational leaders. The concept of leadership is discussed from both a theoretical and practical standpoint. Distinctions between management skills and leadership skills are emphasized. Key leadership challenges such as vision, motivation, staff development, inclusive decision making and strategic planning are stressed. Historical and contemporary accounts are successful leaders are utilized. The ethical and moral aspects of leadership are examined.

**EAL 6643 Administration of School Personnel (3)**  
This course develops capacities to effectively recruit, coordinate, and develop human resources within an educational environment. Administrative procedures such as facilities management, materials management, and technology management will also be discussed.

**EAL 6653 Evaluation and Organizational Improvement (3)**  
This course focuses on basic models and approaches used in evaluating programs and processes for effectiveness. Students will define and discuss evaluation concepts and explore conceptual issues and practical guidelines for conducting a program evaluation.

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**ENVIRONMENTAL AND BIOLOGICAL SCIENCES**

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**EBS 5513 Limnology (3)**  
The physical, chemical, geological, and biological aspects of freshwater ecosystems as influenced by activities in surrounding watersheds. Prerequisite: General Biology. *Co-requisite: EBS L513*

**EBS L513 Limnology Lab (1)**  
Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. *Co-requisite: EBS 5513*

**EBS 5516 Microbial Ecology (3)**  
The study of the diversity and ecology of microbial populations in ecosystems, with the emphasis on the roles that they play in biogeochemical cycles, their contributions to metabolic diversity, their interactions with animals and plants, their niches and bioremediation. *Prerequisites: Microbiology, Organic Chemistry. Co-requisite: EBS L516*

**EBS L516 Microbial Ecology (1)**  
Microbial ecology laboratory techniques including isolation, identification, and enumeration of microorganisms from aquatic and terrestrial environments. *Co-requisite: EBS 5516*

**EBS 5520 Field Vertebrate Zoology (4)**  
The basics of vertebrate identification, with emphasis on phylogeny, anatomy, morphology, life histories, habitats, distributions, and conservation. *Prerequisites: General Biology, General Chemistry*

**EBS 5521 Population Ecology (3)**  
A study of animal and plant populations, food supply, competition, disease, fecundity, distribution, and other environmental factors. Management of endangered species and protected ecosystems are included. *Prerequisites: General Ecology, Genetics, General Chemistry, Statistics. Co-requisite: EBS L521*

**EBS L521 Population Ecology Lab (1)**  
Field exercises in identifying ecological problems, formulating and testing hypotheses, and evaluating data using standard statistical methods. *Co-requisite: EBS 5521*

**EBS 5525 Field Botany (4)**  
A survey of vascular plants from different habitats in southeast Alabama. Principles of plant taxonomy, including history and systems of classification and nomenclature, the use of dichotomous keys, and general herbarium techniques. Emphasis is placed on plant identification and habitat types. *Prerequisites: General Biology, General Ecology*

**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)**

Identification and correction of chemical, biological, and physical hazards in and around the workplace. *Prerequisite: organic chemistry. Co-requisite: EBS L552*

**EBS L552 Industrial Hygiene Lab (1)**

Methods and procedures for sampling, analyzing, and evaluating chemical, biological, and physical agents in the workplace. *Co-requisite: EBS 5552*

**EBS 5576 Special Topics (1 - 4)**

Specialized topics not generally included in course offerings. *Prerequisite: Permission of instructor*

**EBS 5578 Cell Biology (3)**

This course covers cell structure and function with the emphasis on biochemical and molecular mechanisms. Topics include signal transduction, cytoskeleton, intracellular compartments, cell movement, differentiation, and recognition. *Prerequisites: genetics, microbiology, organic chemistry. Co-requisite: EBS L578*

**EBS L578 Cell Biology Lab (1)**

Experimental approaches for studying cells at the biochemical and molecular levels. *Co-requisite: EBS 5578*

**EBS 5579 Environmental Assessment (3)**

An examination of theory and practices required in performing stream environmental assessment as currently practiced by state and federal agencies in their attempt to preserve biological integrity. Sustainable management of natural resources and a systems approach to environmental problem solving will be emphasized. Topics covered include water quality, habitat assessment, indicator species used in ecological inventory with a concentration on macro invertebrate and fish assemblages, and the index of biological integrity. *Prerequisites: BIO 1101/L101; 2202/L202 or 2229/L229. Co-requisite: EBS L579.*

**EBS L579 Environmental Assessment Lab (1)**

Laboratory instruction and hands-on field training regarding stream environmental assessment as currently practiced by state agencies in their attempt to preserve biological integrity. Topics covered include measurement of water quality, habitat, and

practice sampling techniques, with a concentration on fish and macro invertebrate assemblages. In addition, students will learn the use of the index of biological integrity using their own collections of fish assemblages. *Prerequisites: BIO 1101/L101; 2202/L202 or 2229/L229. Co-requisite: EBS 5579.*

**EBS 5582 Molecular Biology (3)**

A 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: EBS L582*

**EBS 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: EBS 5582*

**EBS 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: EBS L600*

**EBS L600 Aquatic Entomology Lab (1)**

Classification and identification of immature and adult aquatic insects. A collection is required. *Co-requisite: EBS 6600*

**EBS 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.

**EBS 6603 Environmental Management (3)**

Concepts and practices underlying procedures for environmental resource management, including planning, organizing, and conducting programs.

**EBS 6611 Global Pollution and International Environmental Policy (3)**

An examination of global environmental issues, such as global climate change, ozone depletion, and acid precipitation. This course also deals with alternatives in developing global policies and treaties to address these problems.

**EBS 6612 Environmental Impact Studies/Risk Management (3)**

An examination of practices used in analysis of land, water, and air to determine the impact of human activities such as construction, mining, clearing, and industrial operation. Planning approaches and ecological constraints, economic evaluation, and quantitative approaches to predict impact.

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

A study of the steps needed and programs required to insure that public and private sector organizations

are in compliance with federal and state environmental regulations. *Prerequisites: An undergraduate ecology or environmental course, or approval of adviser.*

- EBS 6617 Seminars in Environmental and Biological Sciences (1)**  
Presentations on interdisciplinary principles and concepts, current issues, and new studies and research from a variety of fields, with environmental science serving as a unifying theme. Faculty members and outside speakers will present guest lecturers. Candidates for the master's degree in the thesis option will present their research findings and conclusions.
- EBS 6621 Environmental Toxicology (3)**  
This course is a foundation for scientific decision-making involving contaminants and their effects on biological systems. It covers the basic principles of environmental toxicology including bioaccumulation, the biological effects of toxicants from the molecular to global level or organization, and a basic understanding of the risk of environmental pollutants and the science of risk assessment. *Prerequisites: Eight semester hours or equivalent of chemistry*
- EBS 6623 Environmental Negotiations and Conflict Resolution (3)**  
An examination of the approaches to resolving environmental disputes through alternative dispute resolution techniques.
- EBS 6624 Public Health (3)**  
The impact of the environment on humans as well as the human impact on the environment serve as the dual focus of this course. Environmental agents of physical, chemical, and biological nature with adverse effect on human health will be considered. The physiological, molecular, cellular, genetic, and biochemical mechanisms of action of environmental carcinogens, toxins, pollutant, and other disease-causing environmental agents and the interaction of various environmental agents with biological systems will be addressed. *Prerequisite: None*
- EBS 6625 Specialized Study in Environmental and Biological Sciences (1-3)**  
The student has the opportunity to engage in intensive study of a particular subject or learn a pertinent skill, which fits his/her academic and/or professional needs, but is not available in the regular curriculum. This may include educational activities or training outside of the University. The student will follow the guidelines that the Department has established for the supervision and the pursuance of this study. *Requires approval of the student's adviser and the department chair. See semester hour limits listed under Course Restrictions in General Regulations section.*
- EBS 6630 Pollution Science (3)**  
A study of pollution of atmosphere, surface water, and soil and groundwater from animate activities and inanimate processes. Adverse effects, fate, and transport of pollutants in air, soil, and water. *Prerequisite: general chemistry.*
- EBS L630 Pollution Science Lab (1)**  
Theory and analytical techniques used in both field and laboratory for the analysis of air, water, and soil contaminants. *Prerequisite: general chemistry.*
- EBS 6635 Land Use Planning (3)**  
An introduction to land use planning and land use tools, including zoning and comprehensive planning. The course also examines the interaction between land use and environments and explores strategies to reduce environmental impacts and protect natural resources.
- EBS 6637 Environmental Economics (3)**  
Introduction to the micro and macro aspects of environmental economics. The course will explore the various economic and institutional means of controlling environmental problems for effectiveness, efficiency and equity.
- EBS 6643 Biological Chemistry (3)**  
Biological Chemistry emphasizes the classification, structure, function and metabolism of proteins, carbohydrates, lipids and nucleic acids; intermediary metabolism and bioenergetics; enzyme structure, function and kinetics; and storage and expression of genetic information. *Prerequisites: CHM 3343/L343*
- EBS 6645 Biotechnology Techniques (3)**  
Biotechnology Techniques laboratory emphasizes the fundamental theory and techniques used in the isolation, characterization, and study of biochemical molecules. *Prerequisites: CHM 3343/L343*
- EBS 6650 Spatial Analysis Using Geographical Information Systems (3)**  
A graduate level GIS course geared for beginners that presents the understanding behind the four functional and physical components of a GIS: data input; storage and retrieval; manipulation; and data output. Multiple GIS applications are also discussed. *Prerequisites: EBS 6630, EBS L630, or permission of chair. Co-requisite: EBS L650*
- EBS L650 Spatial Analysis Using Geographical Information Systems (1)**  
This lab is intended for average computer users with little or no experience in ArcView GIS or any other GIS software. At the end of the labs, students will be able to use ArcView to view, query, analyze, chart, and map geographic data. *Co-requisite: EBS 6650*
- EBS 6660 Issues in Aquatic Ecology (3)**  
Case studies on the overexploitation and degradation of aquatic ecosystems and their resources, with a primary focus on freshwater systems. *Prerequisite: An undergraduate ecology course is highly recommended.*
- EBS 6661 Conservation Biology (3)**  
Examination of the principles, practices, and philosophy of measuring, maintaining, and enhancing biological diversity. The course focuses on the applications of ecology, population biology, and genetics of the conservation of keystone and rare species and ecosystems. *Prerequisite: An undergraduate ecology course is highly recommended.*

- EBS 6662 Invasive Species Biology (3)**  
This course will familiarize students with the principles of ecological invasions and factors affecting the spread and impacts of invasive species. Students will also become familiar with major sources of exotic species introductions, and methods available for prevention and control.
- EBS 6665 Sustainable Development (3)**  
This course will increase student awareness of sustainability issues concerning the future survival of humans and other organisms on the planet. The course specifically covers the following: biological diversity trends, human population growth, agriculture and food consumption issues, water use and supplies, global warming and effects on biological diversity, sustainable fisheries, forest products and services, and other issues. *Prerequisites: None*
- EBS 6670 Special Topics (1-4)**  
**6671** Specialized topics not generally included in course offerings. *A maximum total of four semester hours is allowed for program credit.*
- EBS 6691 Research Methodology and Experimental Design (3)**  
This course will include hands-on statistical experience emphasizing hypothesis testing using a statistical software system. It will combine several elements of research methodology including developing a grant proposal that will include topic selection, literature search, question formulation, methods, statistics, and a budget. *Prerequisite: Three semester hours in probability and statistics or permission of instructor.* A grade of "B" or better is required.
- EBS 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. *Grading system is Pass / Fail. Prerequisites: 3.0 GPA and permission of the Chair of the Biological and Environmental Sciences department.*
- ECE 6618 Designing Prosocial Learning Environments (3)**  
An examination of early childhood education learning environments. Program models such as the English Infant School, the Open School, Montessori's Prepared Learning Environment and other selected models will be studied. In addition, techniques for creating, maintaining, and assessing an environment that fosters knowledge construction, integration of technology resources, the development of autonomy, and independence will be examined. Students will investigate and implement these techniques with young children.
- ECE 6620 Inquiries into Physical Knowledge (3)**  
The purpose of this course is to assist graduate students as they investigate and construct a deeper understanding about their own questions related to young children's construction of physical knowledge and the facilitation and evaluation of that knowledge construction in the early childhood classroom. In addition, the students will interact with young children through observation and participation in the application of appropriate physical knowledge experiences and the investigation and evaluation of children's construction of knowledge.
- ECE 6622 Parents as Partners in Education (3)**  
The purpose of this course is to assist graduate students as they investigate and construct a deeper understanding of and develop techniques to strengthen the school-parent relationship while developing mutual supporters for the total development of the young child. Pertinent topics include: stress and children, parents and families in crisis, and helping children cope with the future.
- ECE 6625 Specialized Study in Early Childhood Education (1-3)**  
**6626**  
**6627** A study of a problem using research techniques. Selection of problem must be approved by the professor under whom the study is to be made and the Dean of Education. 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 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.

Refer to specific departmental listings in the *Troy University Graduate Catalog* for full course descriptions of BIO (biology), BUS (business), CHM (chemistry), and GEO (geography). Information pertaining to MB (marine biology) is also provided.

*Note: Graduate students may not enroll in a 5000 numbered course if it duplicates the same course listed on an undergraduate transcript.*

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#### EARLY CHILDHOOD

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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 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. Grading system is Pass / Fail.
- ECE 6628 Inquiries into Literacy Acquisition (3)**  
This course is designed to explore emergent literacy and the role of developmentally appropriate practices for young children, N-3. The course includes emphasis on: role of the teacher and teaching reading to young children, children and multiple learning styles, the reading process, and developing a developmentally appropriate reading program for young children, N-3.

- ECE 6630 Inquiries into Representation (3)**  
This course is designed to assist graduate students as they investigate and construct knowledge of symbolic representation in all of its form. Topics include: children's talk, play, art, writing process, music, movement and construction.
- ECE 6631 Historical Perspectives in Early Childhood Education (3)**  
The purpose of this course is to assist graduate students in constructing a sense of identity with the field of early childhood education through an understanding of the past as a prologue to contemporary thought and practice. The philosophy, history, and impact of education from the time of Plato to the present will be examined with special emphasis on the major influences in early childhood education.
- ECE 6632 Authentic Assessment in the Early Childhood Classroom (3)**  
The purpose of this course is to explore the investigation and evaluation of teaching and learning in the early childhood education program through the use of human and material resources. Purposes, types, and designs for developmentally appropriate evaluation will be examined.
- ECE 6633 Integrated Thematic Curriculum (3)**  
The purpose of this course is to assist graduate students as they construct an operational knowledge of integrated thematic curriculum. The course will focus on theory, planning, implementation, and evaluation of an integrated thematic curriculum. Additionally, issues surrounding the implementation of innovative teaching methodology in traditional settings will be examined.
- ECE 6634 Inquiries into Logico-Mathematical Knowledge (3)**  
The purpose of this course is to assist graduate students as they investigate and construct a deeper understanding about their own questions related to young children's construction of logico-mathematical knowledge and the facilitation and evaluation of that knowledge construction in the early childhood classroom. In addition, the students will interact with young children through observation and participation in the application of appropriate logico-mathematical knowledge experiences and the investigation and evaluation of children's construction of knowledge.
- ECE 6635 Program Evaluation in Early Childhood (3)**  
This course is designed for the education student to examine evaluation in early childhood and elementary education programs. Techniques and procedures concerning the design and implementation of evaluation in the total school program will be investigated.
- ECE 6640 Integrating Children's Literature (3)**  
The purpose of this course is to assist graduate students as they investigate and construct a deeper understanding of and develop techniques to incorporate quality children's literature across the curriculum. Pertinent topics include award winning authors and titles found in children's literature among a variety of genre, along with developmentally appropriate techniques for focusing curriculum delivery through quality children's literature.
- ECE 6674 Early Childhood Internship Grades P-3 (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. *Grading system is Pass/Fail.*
- ECE 7725 Specialized Study in ECE (1-3)**  
A study of the problem using research techniques. Selection of problem must be approved by the professor under whom the study is to be made, and the Dean of Education. 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 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.*
- ECE 7760 Leading for Learning in the School Environment (3)**  
This course is designed to extend the teacher leader from the classroom to the school environment. Students will be provided a study of the processes involved in evaluating school settings and the problems faced by instructional leaders. Major emphasis will be placed on the transition to a teacher leading in the school environment. Characteristics of leading for learning will be explored. Topics that affect today's teacher leaders and positive ways to deal with instructional issues will also be investigated.
- ECE 7761 Effective Schools and Teachers (3)**  
This course is designed to examine the knowledge base for effective schools to enable teacher leaders to develop skills in their own practices. There will be emphasis through in-depth study of the research literature on effective school settings. Students will critically examine, analyze, and evaluate the components and characteristics of effective school environments.
- ECE 7762 School Accreditation Process (3)**  
The purpose of this course is to examine the local, state, regional, and national standards associated with school accreditation. The accreditation process in these areas will be reviewed and analyzed. Students will compare and contrast the different ways schools are accredited. Topics such as: the accreditation process, school self-study procedures, validation/documentation, roles of school personnel, and creating school improvement plans will be investigated.
- ECE 7763 Legal Issues and Ethics in Education (3)**  
The purpose of this course is to allow educational leaders to explore the organizational development

and maintenance services required for effective operation of the schools within the legal framework established by local, state, and federal legislative and judicial requirements. Major emphasis will be given to studying legal issues and community relations. Legal issues and services related to exceptional children will be closely examined. The development of ethical standards, informed legal decision making, and emergency procedures for ensuring safety, as well as the political factors which impact schools, society and community relations will be studied.

**ECE 7790 Qualitative Research Methodology (3)**

The purpose of this course is to provide graduate students with an introduction to qualitative research methodology. The historical development, rationale, and relationship to quantitative research will be examined. Qualitative research methods will include procedures for selection and sampling and for data collection and analysis. Students will read a variety of qualitative studies and conduct a brief qualitative research project. Prerequisite: Course in research or tests and measurement. *A grade of "B" or better is required.*

**ECE 7793 Problem Analysis in ECE (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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**ECONOMICS**

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**ECO 6652 Macroeconomics and Forecasting (3)**

An analysis of the courses of business cycles with the applications of macroeconomic theory and economic forecasting techniques available to the business manager. *Prerequisite: All business foundation courses or equivalent.*

**ECO 6654 Labor Economics (3)**

An overview of the forces of supply and demand as related to labor markets; wage determination and resource allocation in U.S. labor market operations; the interrelationship of labor and the national economy, wages, prices, and employment; and labor economics in the microenvironment. An introduction to wage determination policies and strategies in a competitive global marketplace. *Prerequisite: All business foundation courses or equivalent.*

**ECO 6655 Managerial Economics (3)**

A study of the decision-making process of business firms in the resource allocation process. Both the functioning of the markets and the decisions of firms in a variety of market structures are considered. Various theories of the firm are used to study the optimal decision-making rules for business firms under conditions of uncertainty. *Prerequisite: All business foundation courses or equivalent.*

**ECO 6657 International Trade and Economics (3)**

Principles and problems of international economics, trade theory, international payments, and monetary policies, economic integration, international economic institutions and policies, and contemporary developments in political economy. *Prerequisite: All business foundation courses or equivalent.*

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**GIFTED EDUCATION**

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**EDG 6666 Nature and Needs of Gifted Individuals (3)**

This foundation course in the study of gifted education and talent development focuses on understanding gifted individuals, assessment and identification issues in finding gifted students in the schools, models often used to provide education for gifted students and developing support systems for programs for gifted learners.

**EDG 6667 Creativity (3)**

This course in creative thinking in gifted education focuses on understanding creativity and creative students. This course emphasizes the importance of helping children and adolescents become more self-actualized, creative individuals to better enable them to make important contributions to society. *Prerequisite: EDG 6666*

**EDG 6668 Integrating Thinking Skills into the Curriculum (3)**

The focus of this course is the integration of critical and productive thinking skills into the curriculum for gifted learners. This course emphasizes an inquiry-based approach to differentiation of the curriculum content for gifted learners. *Prerequisite: EDG 6666.*

**EDG 6669 Teaching Methods in Gifted Education (3)**

This methods course in curriculum development in gifted education focuses on planning, designing, and developing appropriate curriculum for gifted students. This course emphasizes the connection between the needs of gifted learners and the cognitive, affective, social, and aesthetic areas of curriculum experiences. *Prerequisites: EDG 6666, EDG 6667, and EDG 6668.*

**EDG 6670 Special Populations of Gifted Students (3)**

This course examines ways in which teachers can identify and plan for gifted children from special and underrepresented populations with particular emphasis on underachieving students, minority students, and students with physical, emotional, and learning disabilities. *Prerequisite: EDG 6666.*

**EDG 6696 Practicum in Gifted Education (3)**

Supervised experiences related to instruction in gifted education. The application of skills, concepts, and principles acquired in previous courses will be emphasized. *Prerequisite: At least six hours in teaching field component and a research course must be completed.*

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 EDUCATION
 

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- EDU 6600 Classroom Management and Behavior Intervention (3)**  
 This course is a study of current theory, research, and practice in psychology, sociology, leadership, and human behavior as related to school age students, the nature of the educational organization, and the role of the teacher in that organization. Emphasis is placed upon the formation of a positive, developmental philosophy for effective management of classroom resources and student behavior as well as the identification of some appropriate methods and techniques to apply this philosophy.
- EDU 6603 Planning For the Classroom (3)**  
 This course provides students with an overview of the K-12 classroom environment and the planning necessary to establish environments that are conducive for learning.
- EDU 6606 Current and Emerging Instructional Technologies (3)**  
 This introductory course focuses on current and emerging instructional technologies. The emphasis of this class is on the instructional use of computers, Microsoft Office applications, software, desktop publishing, graphics, hypermedia, and the internet. Prerequisite: permission of instructor.
- EDU 6607 Curriculum Integration of Technology (3)**  
 This course covers the evaluation, selection, and integration of various instructional software and web-based technologies into curricula, taking into consideration teaching and learning styles while relating technologies to instructional settings, diverse models, and developmental levels. Micro-lessons are produced using multimedia-authoring tools. Prerequisite: EDU 6606 or permission of instructor.
- EDU 6611 Educational Technology in the Curriculum (3)**  
 The purpose of this course is to advance pre-service and in-service teachers beyond simple computer literacy and basic understanding of Computer-Based Instructional Technologies. It will focus on more advanced educational use of multimedia and Internet based technologies. The student will explore technologies and learning tools that foster a more learner centered constructivist environment within their specific teaching area. Critical issues arising from the integration of these technologies such as development of interactive environments and new modes of communication and subsequent effects on the definition of learning will also be investigated. Prerequisites: undergraduate or graduate technology course or placement exam
- EDU 6613 Principles of Instructional Design (3)**  
 This course focuses on the development of instruction by using the Instructional Systems Design (ISD) approach based on the ADDIE Model. Students will develop the necessary pedagogical skills that will facilitate the analysis, design, development, implementation, and evaluation of instructional needs to synthesize appropriate teaching and learning curriculum.
- EDU 6614 Advanced Instructional Design (3)**  
 This course further exposes students to the pedagogies, processes, tools, and techniques that facilitate proficiency in developing instructional strategies and materials. This includes case study analysis and in-depth discussion of the literature to foster theoretical application and evaluation of instructional design products. Prerequisite: EDU 6613
- EDU 6616 Distance Learning Strategies (3)**  
 A study of various forms of distance learning with emphasis on computer based systems and on-line learning. The course integrates relevant technology including multimedia authoring, web design, and internet delivery systems. The course concentrates on the development of web-based instructional materials and the management of internet-based courses and programs. Students design an educational web site and develop a strategy to deliver web-based instruction. Prerequisite: EDU 6613
- EDU 6617 Graphic Design in Multimedia Instruction (3)**  
 A study of graphic design principles as they apply to the development of multimedia instructional courseware. The course integrates advanced graphics, multimedia authoring and web design software to teach the student relevant technology as it applies to instructional design. Students apply graphic design principles in developing a variety of multimedia instructional products working individually and in teams. Prerequisite: EDU 6613
- EDU 6618 Advanced Multimedia Instruction (3)**  
 An advanced course in computer based multimedia interactive course design. The course integrates course design software, multimedia authoring, web design and presentation graphics in the development of a multimedia lesson or course. The course concentrates on the total instructional process culminating complete multimedia class delivered either by disk or internet. Students develop their own video and audio elements learning the complete production process necessary for multimedia instructional products. Prerequisite: EDU 6617
- EDU 6625 Specialized Study in Area of Education (1-3)**  
**6626**  
**6627**  
 This course focuses on the 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, the appropriate college dean, and the Dean of the Graduate School. 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 4 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.

**EDU 6629 The Master Teacher (3)**

This course is designed to assist the beginning graduate student in determining the expectations and attributes of the master teacher. Major emphasis will focus on effective teacher characteristics, skills and practices of teaching, as well as a review of the requirements for National Board for Professional Teaching Standards (NBPTS). All traditional masters degree teacher education candidates must complete this course in the first nine semester hours attempted. Formal admission to Graduate Teacher Education Program (GTEP) will be completed as a part of the course. *A grade of "B" or better is required.*

**EDU 6630 Teachers and the Law (3)**

This course is designed to help teachers become legally literate by providing them with information about the law that affects them, how the legal system works, and how that system can work for them.

**EDU 6632 Seminar in Classroom Teaching (2)**

This course is an inter-disciplinary seminar course designed for classroom teachers who desire to investigate in depth the techniques, procedures and strategies related to improving learning through improved teaching.

**EDU 6645 The Nature of Intelligence (3)**

This course provides a description and analysis of the quantitative and qualitative aspects of intelligence. It includes classic and contemporary theories of learning and their relationship to the understanding of individual differences.

**EDU 6650 Global Education in the Elementary/Middle School (3)**

This course is designed to instruct teachers about the complexities of citizenship in a world community, current issues, and concerns in this field, and methods of globalizing the existing elementary curriculum.

**EDU 6653 Educational Evaluation (3)**

A study of the basic statistical processes and measures used in education. Analysis of a variety of standardized tests and measurements procedures including construction, use and interpretation. Construction of teacher made tests and measuring devices.

**EDU 6655 The Arts Curriculum (3)**

This course prepares the teacher to provide a broad-based arts education program that includes history, interpretation, production, and appreciation. Emphasis is placed on utilizing the arts to enrich students learning in all curricular areas.

**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 6672 The Wiregrass Writing Project (3)**

The Wiregrass Writing Project is the local affiliate of the Alabama Writing Project and the National Writing Project. The National Writing Project strives to improve student writing achievement by improving the teaching and learning of writing in the nation's schools. The 165 sites operate on a teachers teaching teachers model. Successful writing teachers who attend this invitational summer institute will examine their classroom practice, conduct research of sound theory supporting particular approaches to the teaching of writing, and develop their own writing skills.

**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. *Grading system is Pass/Fail.*

**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. Grading system is Pass / Fail. *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. Grading system is 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. *A grade of "B" or better is required.*
- 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. A grade of "B" or better is required.*
- EDU 7706 Environmental Education: Teaching Across the Curriculum (3)**  
This course is designed to provide an interdisciplinary experience in teaching using an approach designed around environmental education themes. The graduate students will be immersed in teaching across the curriculum using issues related to the environment. The focus will be interdisciplinary and utilize hands-on learning experiences which will help to make learning meaningful and authentic.
- 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 be given to curriculum and instruction, financial, political, cultural, economic ethical and legal policies, and the impact of cultural diversity in American schools. *Restricted to students enrolled in an Education Specialist program.*
- EDU 7725 Specialized Study in Education (1-3)**  
**7726** Study of the problem using research techniques.  
**7727** Selection of problem must be approved by the professor under whom the study is to be made, and the Dean of Education. 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 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.*
- EDU 7730 The Teacher Leader (3)**  
The purpose of this course is to help teachers develop as teacher leaders in their schools. Major emphasis will focus on teacher leader characteristics, skills and effective practices in teacher leadership.
- EDU 7750 Practicum in Area of Specialization (1-3)**  
**7752** The Practicum is a supervised application of the  
**7757** concepts, principles, and skills acquired by the students in previous course work. Students will explore and identify alternative solutions to the problems through group interaction.
- EDU 7760 Leading for Learning in the School Environment (3)**  
This course is designed to extend the teacher leader from the classroom to the school environment. Students will be provided a study of the processes involved in evaluating school settings and the problems faced by instructional leaders. Major emphasis will be placed on the transition to a teacher leading in the school environment. Characteristics of leading for learning will be explored. Topics that affect today's teacher leaders and positive ways to deal with instructional issues will also be investigated.
- EDU 7761 Effective Schools and Teachers (3)**  
This course is designed to examine the knowledge base for effective schools to enable teacher leaders to develop skills in their own practices. There will be emphasis through in-depth study of the research literature on effective school settings. Students will critically examine, analyze, and evaluate the components and characteristics of effective school environments.
- EDU 7762 School Accreditation Process (3)**  
The purpose of this course is to examine the local, state, regional, and national standards associated with school accreditation. The accreditation process in these areas will be reviewed and analyzed. Students will compare and contrast the different ways schools are accredited. Topics such as: the accreditation process, school self-study procedures, validation/documentation, roles of school personnel, and creating school improvement plans will be investigated.
- EDU 7763 Legal Issues and Ethics in Education (3)**  
The purpose of this course is to allow educational leaders to explore the organizational development and maintenance services required for effective op-

eration of the schools within the legal framework established by local, state, and federal legislative and judicial requirements. Major emphasis will be given to studying legal issues and community relations. Legal issues and services related to exceptional children will be closely examined. The development of ethical standards, informed legal decision making, and emergency procedures for ensuring safety, as well as the political factors which impact schools, society and community relations will be studied.

**EDU 7764 Models and Strategies for Instruction (3)**

The purpose of this course is to assist education specialist candidates as they explore a variety of instructional models throughout the educational and other learning environments. There will be an emphasis on current research of effective teaching and learning practices. Students will compare and contrast different educational instructional practices and develop set of strategies to enhance the instructional environment.

**EDU 7792 Advanced Research in Education (3)**

This course is designed primarily for students planning to prepare a thesis. Particular attention is given to the research techniques related to the types of thesis study the student desires to undertake. (May carry the prefix appropriate to the program of study i.e. SPE, SED, IED). *A grade of "B" or better is required. Prerequisite: This course is restricted to Ed.S. candidates only.*

**EDU 7795 Thesis (1-6)**

Research for and preparation of a scholarly paper related to a school administration, supervision, and/or curriculum problem. The project will be under the direction of the student's advisory committee. *Grading system is Pass/Fail.*

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**ELEMENTARY EDUCATION**

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**ELE 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. Grading system is Pass / Fail.*

**ELE 6600 Diagnostic Approach to Teaching Mathematics (3)**

The diagnostic/prescriptive component of teaching mathematics will be studied with an emphasis on the interpretation of diagnostic materials

**ELE 6601 The Art of Teaching Writing (3)**

Course in which classroom teachers investigate and apply the art of teaching writing via whole language/natural approach. Focus on writing process.

**ELE 6602 Seminar in Mathematics Education (3)**

This course will look at recent research and publications relative to the teaching of elementary school mathematics. Not only will specific areas selected by the instructor be examined, but the students in the class will have the opportunity to suggest areas of particular interest to them. This course provides opportunities for the student to extend knowledge and skills necessary for developing programs, selecting appropriate methods and employing materials, and evaluating in mathematics instruction, kindergarten through grade 6.

**ELE 6603 Seminar in Science Education (3)**

This course will examine relevant research and a variety of instructional strategies appropriate in the field of natural science. Emphasis is placed on appropriate instruction and materials including technology for teaching science to students in grades K-6.

**ELE 6604 Seminar in Language Arts Education (3)**

This course is a seminar for elementary educators desiring to design and implement developmental programs of language arts instruction in view of recent research. An examination of the research in the language arts and current practices in teaching techniques will be pursued.

**ELE 6605 Seminar in Social Science Education (3)**

This course will examine relevant research and a variety of instructional strategies appropriate in the field of social science. Emphasis is placed on appropriate instruction and materials including technology for teaching social science to students in grades K-6.

**ELE 6622 Parents as Partners in Education (3)**

The purpose of this course is to assist graduate students as they investigate and construct a deeper understanding of and develop techniques to strengthen the school-parent relationship while developing mutual supporters for the total development of the young child. Pertinent topics include: stress and children, parents and families in crisis, and helping children cope with the future.

**ELE 6625 Specialized Study in Elementary Education (1-3)**

**6626** A study of a problem using research techniques.  
**6627** Selection of problem must be approved by the professor under whom the study is to be made and the Dean of Education. 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 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.

**ELE 6633 Integrated Thematic Curriculum (3)**

The purpose of this course is to assist graduate students as they construct an operational knowledge of integrated thematic curriculum. The course will

focus on theory, planning, implementation, and evaluation of an integrated thematic curriculum. Additionally, issues surrounding the implementation of innovative teaching methodology in traditional settings will be examined.

- ELE 6635 Program Evaluation in Elementary Education (3)**  
This course is designed for the education student to examine evaluation in early childhood and elementary education programs. Techniques and procedures concerning the design and implementation of evaluation in the total school program will be investigated.
- ELE 6640 Integrating Children's Literature (3)**  
The purpose of this course is to assist graduate students as they investigate and construct a deeper understanding of and develop techniques to incorporate quality children's literature across the curriculum. Pertinent topics include: award winning authors and titles found in children's literature among a variety of genre, along with developmentally appropriate techniques for focusing curriculum delivery through quality children's literature.
- ELE 6674 Elementary Internship Grades K-6 (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. Grading system is Pass/Fail.
- ELE 7725 Specialized Study in Elementary Education (1-3)**  
**7726** A study of a problem using research techniques.  
**7727** Selection of problem must be approved by the professor under whom the study is to be made, and the Dean of Education. 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 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.*
- ELE 7736 Mentoring and Supervision in ELE (3)**  
This course is designed for the advanced sixth year education student to examine the faculty leadership roles of mentor/supervisor in ELE settings. Techniques and procedures will be investigated.
- ELE 7760 Leading for Learning in the School Environment (3)**  
This course is designed to extend the teacher leader from the classroom to the school environment. Students will be provided a study of the processes involved in evaluating school settings and the problems faced by instructional leaders. Major emphasis
- will be placed on the transition to a teacher leading in the school environment. Characteristics of leading for learning will be explored. Topics that affect today's teacher leaders and positive ways to deal with instructional issues will also be investigated.
- ELE 7761 Effective Schools and Teachers (3)**  
This course is designed to examine the knowledge base for effective schools to enable teacher leaders to develop skills in their own practices. There will be emphasis through in-depth study of the research literature on effective school settings. Students will critically examine, analyze, and evaluate the components and characteristics of effective school environments.
- ELE 7762 School Accreditation Process (3)**  
The purpose of this course is to examine the local, state, regional, and national standards associated with school accreditation. The accreditation process in these areas will be reviewed and analyzed. Students will compare and contrast the different ways schools are accredited. Topics such as the accreditation process, school self-study procedures, validation/documentation, roles of school personnel, and creating school improvement plans will be investigated.
- ELE 7763 Legal Issues and Ethics in Education (3)**  
The purpose of this course is to allow educational leaders to explore the organizational development and maintenance services required for effective operation of the schools within the legal framework established by local, state, and federal legislative and judicial requirements. Major emphasis will be given to studying legal issues and community relations. Legal issues and services related to exceptional children will be closely examined. The development of ethical standards, informed legal decision making, and emergency procedures for ensuring safety, as well as the political factors which impact schools, society and community relations will be studied.
- ELE 7790 Qualitative Research Methodology (3)**  
The purpose of this course is to provide graduate students with an introduction to qualitative research methodology. The historical development, rationale, and relationship to quantitative research will be examined. Qualitative research methods will include procedures for selection and sampling and for data collection and analysis. Students will read a variety of qualitative studies and conduct a brief qualitative research project. *Prerequisite: Course in research or tests and measurement.*
- 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, including the following courses: ACT 6691, EMBA 6651, EMBA 6631, EMBA 6661 and EMBA 6640 or 6641; or approval of the department chair. Students should be in the last term of their program when completing this course. A grade of "B" or better is required.*

**EMBA 6625 Specialized Study in the Area of EMBA****6626 Concentration (1-3)**

**6627** A 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. Preparation of an applied research paper is required and may involve an oral defense. See semester hour limits listed under Course Restrictions in General Regulations section.

**EMBA 6631 Managerial Finance (3)**

A comprehensive and advanced study of financial analysis, planning, and control techniques for a business entity with emphasis on corporations.

**EMBA 6640 Quantitative Analysis for Managers (3)**

This course provides an in-depth study of the fundamental theories, concepts, and principles of statistics. Coursework will include extensive use and application of statistical tools to analyzing business data using statistics software. Topics covered in-

clude descriptive statistics, probability distributions, sampling, estimation, hypothesis testing, ANOVA and regression analysis.

**EMBA 6641 Decision Theory (3)**

An analysis of the probabilistic and deterministic quantitative techniques available to the business manager involved in the decision making process of the market place. Included is an evaluation of the models and processes now available for problem-solving purposes.

**EMBA 6651 Managerial Economics (3)**

A study of the decision-making process of business firms in the resource allocation process. Both the functioning of markets and the decisions of firms in a variety of market structures are considered. Various theories of the firm are used to study the optimal decision-making rules for business firms under conditions of uncertainty.

**EMBA 6661 Strategic Marketing Management (3)**

An application of marketing concepts, principles and procedures for planning, development, implementation and control of marketing programs in profit and non-profit organizations. Emphasis is on the matching of organization resources and strengths with global marketing opportunities, and strategies to overcome environmental threats.

**EMBA 6671 Organizational Behavior (3)**

A study of contemporary concepts and theories of organization and the behavior of individuals and groups applied to organizations in the global business environment.

**EMBA 6673 Operations Management (3)**

An analysis of the conditions under which production and management of goods and services take place in business organizations with attention to the delineation of roles played by management and labor in carrying out production and application of selected quantitative techniques used in production.

**EMBA 6674 Ethics in Business (3)**

The course examines ethical problems and issues faced by managers in the American business and industry with attention to analyzing issues and developing recommended approaches to increase long-term organizational effectiveness.

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**ENGLISH**

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**ENG 5501 Chaucer (3)**

A study of Chaucer's major poetry.

**ENG 5502 Studies in Medieval Literature (3)**

A study of non-Chaucerian British literature from the Middle Ages, including *Beowulf*, *Piers Plowman*, *Sir Gawain and the Green Knight*, mystery plays, *Le Morte d'Arthur*, and other works.

- ENG 5503 English Renaissance Literature (3)**  
This course covers English prose and poetry of the 16<sup>th</sup> and early 17<sup>th</sup> centuries, with emphasis on Sidney, Spenser, Donne, and Jonson.
- ENG 5504 Milton (3)**  
A study of Milton's poetry and major prose.
- ENG 5505 History of the English Language (3)**  
A study of the development of English from the Anglo-Saxon period through the present, with reference to the Indo-European background of English.
- ENG 5513 Modern Short Story (3)**  
An examination of 20<sup>th</sup>- and 21<sup>st</sup>-century short stories.
- ENG 5515 Modern Drama (3)**  
A detailed study of selected British and/or American plays written between 1900 and present. Review of production history, subject matter, staging, and dramatic techniques. Several oral and written reports. List of plays may vary with each offering.
- ENG 5516 Nineteenth-Century American Novel (3)**  
A study of representative American novels of the 19<sup>th</sup> century.
- ENG 5526 Modern Poetry (3)**  
A study of 20<sup>th</sup>- and 21<sup>st</sup>-century poetry.
- ENG 5527 Contemporary American Literature (3)**  
An examination of representative American literature from the postmodern period (1960-present), with special emphasis on the diversity of themes, styles, and cultural contexts influencing the literary marketplace. Course readings may vary with each offering.
- ENG 5528 The Age of Johnson (3)**  
A study of the works of Samuel Johnson and his most important contemporaries, from about 1745 to 1798.
- ENG 5530 Shakespeare I: The Tragedies (3)**  
A study of major and minor tragedies, with some attention to non-dramatic poetry. List of plays may vary with each offering.
- ENG 5531 Shakespeare II: The Comedies (3)**  
A study of comedies and romances. List of plays may vary with each offering.
- ENG 5532 Shakespeare III: The Histories (3)**  
A study of history plays, especially those concerning Wars of the Roses. List of plays may vary with each offering.
- ENG 5533 Literary Criticism (3)**  
A study of the major literary critics and their works from classical times to the present.
- ENG 5534 Romantic Period in English Literature (3)**  
A study of Romantic prose and poetry with emphasis on the writings of Blake, Coleridge, Wordsworth, Byron, Keats, and Shelley.
- ENG 5535 The Bible as Literature (3)**  
This course studies select works for the Bible for their literary qualities, composition and preservation techniques, and the historical factors that determined inclusion or exclusion as a sacred text.
- ENG 5542 Advanced Writing (3)**  
An intensive study of and practice in expository and argumentative prose. Requires writing several essays. Some evaluation of other students' writing.
- ENG 5543 Southern Writers (3)**  
A study of works by writers from the American South from colonial times to the present.
- ENG 5552 Medieval and Renaissance English Drama (3)**  
A survey of drama from the Middle Ages and Renaissance, excluding Shakespeare. Begins with brief study of folk and liturgical origins of drama, includes a few medieval mystery and morality plays, and features Renaissance plays by Heywood, Udall, Kyd, Marlowe, Beaumont, Fletcher, Jonson, and Webster.
- ENG 5557 Form and Theory of Nonfiction Literature (3)**  
This course examines the theories behind various forms of nonfiction literature, whether autobiography, biography, the essay, diaries and/or travel writing, with special emphasis on the historical evolution of a particular form. List of readings will vary with each offering.
- 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 teaching repertoire by studying curriculum design, assessment measures, learner variables, techniques for teaching grammar/vocabulary/four skills (listening, speaking, reading, writing), and sociopolitical contexts for teaching ESL/EFL.
- ENG 6601 Seminar in Chaucer (3)**  
A close examination of two major works of Chaucer and critical responses to them. Special consideration given to Chaucer's language and versification and the medieval social background to his writing.
- ENG 6603 Seminar in Shakespeare (3)**  
A study of selected tragedies or comedies. Examination of various critical approaches. Extensive reading in relevant criticism. List of plays, as well as genre, may vary with each offering.
- ENG 6605 Linguistic Approaches to Grammar (3)**  
Study of American English from point of view of modern linguistic theories. Special consideration given to structural grammar and its possibilities in classrooms.
- ENG 6606 Theory and Practice of Analyzing Poetry (3)**  
A critical study of representative types of poetry, employing several approaches in analytical process.
- ENG 6607 The Backgrounds of Victorian Literature (3)**  
A study of Victorian literature (1837-1900) as it reflects social, economic, political, educational, aesthetic, and religious concerns.
- ENG 6608 Shakespeare's History Plays (3)**  
A study of eight plays, from *Richard II* to *Richard III*, concerning the Wars of the Roses. Supplemental reading in Shakespeare's sources and in twentieth- and twenty-first-century histories.
- ENG 6609 The Backgrounds of Nineteenth-Century American Literature (3)**  
A study of literature (fiction, nonfiction prose, and poetry) 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 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 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 Specialized Study in Area of English (1-4)**  
**6626** A study of problem or problems using research  
**6627** 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 may be substituted for a required course only one time in student's program. See semester hour limits listed under Course Restrictions in General Regulations section.*
- ENG 6630 Survey of SLA for Second Language Teachers (3)**  
SLA is the study of how language, social, and psychological factors influence language learning. A range of SLA topics are addressed from the perspective of language teaching: theories of human learning, theories of language acquisition, learning styles and strategies, communicative competence, cross-linguistic influences, and sociocultural factors.
- ENG 6631 Survey of Sociolinguistics for Second Language Teachers (3)**  
Sociolinguistics is the study of how social, political, and educational factors affect language use. A range of Sociolinguistics topics are addressed from the perspective of language teaching: literacy, world Englishes, language standardization, language variation and change, multilingual education, language planning and policy, group identity/morality, and regional/social dialects.
- ENG 6632 American Realism and Naturalism (3)**  
A seminar stressing critical approaches to the major works of such writers as James, Howells, Twain, Crane, and Dreiser.
- ENG 6635 The Victorian Novel (3)**  
The study of the content and techniques of representative novels of the period with some consideration of these novels in relation to significant social, philosophical, and literary needs..
- ENG 6636 The American Renaissance (3)**  
A seminar stressing critical approaches to the major works of Emerson, Thoreau, Hawthorne, Melville, Poe, and Whitman.
- ENG 6638 Major American Writers: WWI to Present (3)**  
A study of major American writers who represent the various currents in American literature and thought from 1917 to present.
- ENG 6641 Theory and Practice of Grammar Studies (3)**  
Advanced studies in descriptive grammar in conjunction with sentence structure and standards of

usage. Special emphasis upon current procedures for presenting the various systems of grammar (particularly structural).

**ENG 6642 Theory and Practice of Written Composition (3)**  
Advanced studies in expository and argumentative writing. Special emphasis upon procedures for presenting methods for organizing and developing various types of essays.

**ENG 6643 Trends in Children's and Young Adult Literature (3)**  
A study of literature at the elementary, middle, and senior high levels. It includes reading the primary sources and studying the research and theory that support the use of children's and young adult literature in the classroom.

**ENG 6648 Studies in the American Renaissance (3)**  
A study of the major works of the American Renaissance.

**ENG 6651 Studies in Modern Novel (3)**  
A study of selected American, British, and/or European novels of the modern age.

**ENG 6656 Studies in Literacy and the English Language (3)**  
Explores the rationale and practices for integrating the study of grammar and composition in the English language arts classroom.

**ENG 6660 Introduction to Applied Linguistics (3)**  
This course introduces the main content areas and research practices of Linguistics and Applied Linguistics. Linguistics involves the systems of a language (phonology, morphology, syntax, semantics). Applied Linguistics requires familiarity with these systems for the purpose of researching and teaching the way language is used (e.g., Sociolinguistics, Second Language Acquisition).

**ENG 6665 Studies in African American Literature (3)**  
A study of major works by African American writers.

**ENG 6670 Seminar in Selected Topics (3)**  
**6671** Maximum of two semesters. Study of topic of  
**6672** special interest and importance which is not covered in regularly offered courses for advanced graduate students. *See semester hour limits listed under Course Restrictions in General Regulations section.*

**ENG 6680 Thesis Option in Literature (3)**  
An advanced study of a problem or issue in literary studies. Selection of topic must be approved by the student's thesis director, who will oversee the project. Final project must demonstrate knowledge of extant criticism on the topic and should contribute to the student's program. Oral defense of the thesis required before final approval. Recommended for students interested in pursuing doctoral work in literature.

**ENG 6691 Research in Education (3)**  
Research strategies for English educators and procedures for evaluating the language arts. ENG 6691 is a prerequisite for ENG 6696 Practicum. *A grade of "B" or better is required.*

**ENG 6696 Practicum in Area of Specialization, English (3)**  
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 courses in Teaching Field Component and ENG 6691 must be completed.*

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## FINANCE

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**FIN 6625 Specialized study in the Area of Finance (1-3)**  
**6626** Study of problem or problems using research  
**6627** 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. 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. *Prerequisite: All business foundation courses or equivalent.*

**FIN 6631 Managerial Finance (3)**  
A comprehensive and advanced study of financial analysis, planning and control techniques for a business entity with emphasis on corporations. *Prerequisite: All business foundation courses or equivalent.*

**FIN 6632 Investments (3)**  
An introductory investments course which identifies and analyzes various forms of investments (such as corporate bonds, common stock, preferred stock) and government securities (such as bonds, notes and bills). The course also includes discussion of the securities market, brokerage functions, and stock exchanges. Particular emphasis is placed on the selection of securities based on the degree of risk and expected rate of return. *Prerequisite: FIN 6631.*

**FIN 6633 International Finance (3)**  
An examination of the foreign exchange market, exchange rate determination, international financial institutions, and the management of the risks associated with international business. *Prerequisite: FIN 6631.*

**FIN 6634 Derivative Securities (3)**  
A study of options and futures markets, with emphasis on the nature of speculative transactions, pricing, and method of trading. *Prerequisite: FIN 6631.*

**FIN 6651 Financial Institutions (3)**  
A comprehensive graduate study of financial markets and institutions. *Prerequisite: FIN 6631.*

- FIN 6652 Problems in Financial Management (3)**  
Case discussions used to examine a broad range of corporate finance issues and decisions. Topics include forecasting financial statements, capital budgeting, risk and return, estimation of capital costs, working capital analysis and business valuation. *Prerequisite: FIN 6631.*
- FIN 6653 Finance Research (3)**  
A comprehensive graduate study of practical research in Finance. *Prerequisite: FIN 6631.*
- FIN 6656 Analysis of Financial Data (3)**  
This course provides a study of the basic methods and techniques of data analysis in finance. It covers tools such as regression and time series, including non-stationary models, multivariate concepts such as co-integration, and models of conditional volatility. *Prerequisite: FIN 6631.*
- 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: FIN 6631.*
- FIN 6658 Special Topics in Finance (3)**  
A study in unique topics in Finance. *Prerequisite: FIN 6631.*
- 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 North America (3)**  
An analysis of the physical and cultural factors in the development of North America from early European settlement to the present.
- GEO 5595 Selected Topics in Geography (3)**  
This course focuses on a topic of a timely nature and/or special interest. Course may be taken twice for a maximum of six hours toward degree requirements. *See semester hour limits listed under Course Restrictions in General Regulations section.*
- GEO 6624 Geographic Characteristics of the Developing Realm (3)**  
This course focuses on the identification and analysis of the social, economic, demographic, environmental, and political characteristics of the developing realm.
- GEO 6625 Specialized Study in Area of Geography (1-6)**  
**6627** 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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### 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 6650 Geography of the Global Economy (3)**  
An examination of the global economy from colonialism to the present. Social, political, and environmental factors associated with the diffusion and intensification of world trade are examined.

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### HISTORY

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- HIS 5501 French Revolution and Napoleon (3)**  
A study of the absolutist-aristocratic France challenged by democratic-egalitarian ideals and revolution. The role of Napoleon as conqueror of Europe and as propagator and destroyer of the French Revolution is also studied.
- HIS 5502 Europe from 1815-1900 (3)**  
A study of Europe from the Congress of Vienna to 1900, including political, social, and economic developments in various countries, the rise of nationalism and unification movements, and imperialism.
- HIS 5503 Contemporary Europe (3)**  
Traces European developments in the 20<sup>th</sup> century, including domestic developments, World War I, Great Depression, rise of totalitarianism, World War II, European integration, the Cold War, and the post-Cold War era.

- HIS 5504 Military History of the United States (3)**  
A study of war in U.S. history from the Colonial era through the Vietnam war, with emphasis on the role of warfare in American history and the military-civilian relationship.
- HIS 5505 Old South (3)**  
An examination of the cultural, political, religious, and economic trends that shaped the colonial and antebellum south and the Civil War which ended that era.
- HIS 5506 New South (3)**  
An examination of the political, social, racial and religious trends and policies that defined the New South. Topics include reconstruction, redemption, agrarian unrest, Jim Crow, industrialization, Progressive Movement, World War I, the Great Depression, World War II, and the Civil Rights Movement.
- HIS 5509 England To 1688 (3)**  
A survey of English history from the Anglo-Saxons to the Glorious Revolution, emphasizing the interaction of the geographical, political, economic, and cultural forces which shaped England as a monarchy.
- HIS 5510 England Since 1688 (3)**  
The final evolution of the English political system from the reign of William and Mary to the contemporary era, including social and economic transformations, the British Empire, the two world wars, the welfare state, and current issues.
- HIS 5511 Colonial America (3)**  
Study of the colonial period from European discovery to the end of the French and Indian War, with emphasis on the political, economic, and social developments that set the stage for the American Revolution.
- HIS 5512 American Revolution and New Nation (3)**  
Ideas and institutions which led to American independence, the creation of an American union, and the development of a distinctive American culture in the period preceding 1800.
- HIS 5513 Sectionalism, Civil War and Reconstruction (3)**  
Examines territorial expansion, slavery and sectional strife, and the resulting Civil War and Reconstruction.
- HIS 5514 Gilded Age and Progressive Era (3)**  
Examines the period in American history between 1877 and 1920. Topics covered include the results of Reconstruction, the development of the New South, agricultural decline and crisis, industrialization, urbanization, Progressive Era reform, the growth of America as a world power, and the causes and effects of World War I.
- HIS 5515 Contemporary America(3)**  
Examines the political, economic, and cultural themes in American history from 1945 to the present. Topics covered include the effects of World War II, the origins and development of the Cold War, the Civil Rights Movement, the social move-
- ments of the 1960s and 1970s, the Vietnam War, the economic and political crises of the 1970s, the rise of conservatism in the 1980s, and the effects of America's rise to superpower status.
- HIS 5517 Jacksonian America (3)**  
A study of the emerging American nation. Topics will include Jeffersonian and Jacksonian democracy, the market revolution and slavery, the Second Great Awakening and the rise of reform movement, Manifest Destiny, and the Mexican War.
- HIS 5520 The Vietnam War (3)**  
A study of the period 1946 to 1975 in Indochina with emphasis on the American involvement during and after the French colonial period, the escalating involvement of the Kennedy and Johnson administrations, and Vietnamization and withdrawal under President Nixon. *Note: May be used for political science credit.*
- HIS 5521 African American History (3)**  
A study .of the history of African Americans from the 17th century to the present, including slavery, Civil War and emancipation, legalized discrimination, and the struggles for equality in post World War II American society.
- HIS 5522 History of American Women (3)**  
A study of the history of women in America from the 17th century to the present, exploring the major economic, religious, social, and political ideas and developments which have shaped their status and role in American history.
- HIS 5523 American Diplomatic History (3)**  
A study of the factors, forces, and functions in the making of American foreign policy from the 1760's to the present. *Note: May be used for political science credit.*
- HIS 5530 Civil Rights Movement (3)**  
Study of the origins of the Civil Rights Movement in the late nineteenth and twentieth centuries, beginnings of change in the 1930s and the World War II era, and the movement itself as defined by legal, political, and social conflict and change from the latter 1940s to the present.
- HIS 5533 Modern Russia (3)**  
The development of the revolutionary movements and tsarist reform attempts, World War I, revolutions of 1917 and Bolshevik victory, establishment of the Stalinist state, World War II, the Cold War, Soviet domestic problems, and the disintegration of the USSR.
- HIS 5537 Interwar and World War II America (3)**  
A study of America in the years between the end of World War I and the end of World War II. Topics will include cultural and economic changes during the 1920s, the causes and effects of the Great Depression, the programs of the New Deal, and the diplomatic, cultural, and social causes and effects of World War II.

- HIS 5538 The Cold War (3)**  
This course explores the history of the Cold War, focusing on its origins, the major events (the Korean War, the Cuban Missile Crisis, the Vietnam War, the Berlin Crises, and so on), and the collapse of the Soviet Union. The emphasis of the course is placed on analyzing newly available primary documents from Western and former communist sources and their impact on previous Cold War historiography.
- HIS 5539** of Western cultures, twentieth century conflicts, resolutions and accommodations.
- HIS 5540 History of American Minorities (3)**  
A study of selected ethnic, racial, cultural, social, and religious minorities, their treatment within and their contributions to American society.
- HIS 5541 American Constitutional Development (3)**  
American constitutional system with emphasis upon its origin and evolution via amendments and Supreme Court decisions. Note: May be used for political science credit.
- HIS 5542 Renaissance and Reformation (3)**  
Historical review of the transitional centuries bridging the medieval and the modern eras, including the rebirth of art and literature, the Protestant and Catholic reform movements, and the role of kings and states.
- HIS 5543 Age of Absolutism (3)**  
Survey of political and religious controversies that shaped affairs in Europe during the 16<sup>th</sup> and 17<sup>th</sup> centuries, emphasizing the flowering of monarchy and aristocracy.
- HIS 5544 Age of Reason (3)**  
Survey of European history in the 18<sup>th</sup> century, emphasizing the cataclysmic developments in scientific, political, humanitarian, and economic thought that prepared the way for the rise of democracy in both the old and the new world.
- HIS 5545 Modern Germany (3)**  
Survey of Germanic peoples from the Revolutions of 1848 to the present, emphasizing unification, two world wars, postwar division, and reunification.
- HIS 5548 The West in American History (3)**  
Study of the history of the American West from European contact to the present. Topics will include the role of the US government, the effects of American expansionism on immigrants and indigenous populations, and struggles over resources and territory.
- HIS 5550 Environmental History (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, and responses by grassroots activists over time.
- HIS 5551 Modern East Asia (3)**  
Study of the development and interaction of Chinese, Japanese, and Korean civilizations; the impact
- HIS 5552 History of Africa (3)**  
Study of 19th and 20th century political, social and cultural history of the region, including the partition of Africa by European powers and decolonization. Note: May be used for political science credit.
- HIS 5553 Late Antiquity (3)**  
Study of developments in the Mediterranean and Europe during the third through eighth centuries, including the fall of the Roman empire and rise of barbarian kingdoms. The course examines the inter-relatedness of economics, politics, warfare, and religion in shaping late ancient societies.
- HIS 5556 History of the Middle East (3)**  
Examines the region during the rise of Islam, the Ottoman Empire, and in the modern era. The course also addressed political, social, cultural and economic developments since World War II. Note: May be used for political science credit.
- HIS 5564 The Crusades (3)**  
Study of the origins and execution of the series of religious wars called the crusades. In addition to analyzing the various campaigns, the course also examines the phenomenon in the context of social and cultural conditions in medieval Europe, Byzantium, and Islam.
- HIS 5567 Medieval Europe (3)**  
Study of Western Europe and the Byzantine and Islamic worlds from the seventh century to the eve of the Renaissance. The course addresses the role of economics, politics, warfare, religion and intellectual activity in shaping medieval societies.
- HIS 5570 Women, Health and History (3)**  
Explores the historical relationships between sex, gender, and medicine in the western world and improves students' cultural and historical literacy, understanding of major health issues in the health professions, the role of gender and sex in medicine and culture, and the diversity of medical and social practices.
- HIS 5574 Modern Eastern Europe (3)**  
This course examines political, economic, and social developments of 19th and 20th century Eastern Europe from the Revolutions of 1848 through the collapse of the Soviet block and beyond. The course analyzes the impact of the disintegration of Russian, Ottoman, and Habsburg empires on inter-war Eastern Europe; examines the establishment, development, and eventual collapse of communism in the region; and explores the dynamics of post-Cold War European integration.
- HIS 5579 Infectious Diseases and History (3)**  
The course provides a study of the causes and effects of infectious diseases on major events in human

history from the Neolithic revolution to the present. A selected case study will be presented.

American history. Emphasis on discussion and student producing a major research paper.

- HIS 5582 Colonial Latin America (3)**  
Study of the history of Latin America from pre-Columbian times to the beginning of the independence movements of the early 19th century. Topics will include the indigenous populations, European colonialism and its effects, and the causes and early development of revolution.
- HIS 5583 Modern Latin America (3)**  
Study of Latin America from the early 19th century to the present. Topics will include the cultural, social, political, and economic developments as well as international and U.S. relations in the area.
- HIS 5584 History of Mexico (3)**  
A history of Mexico from pre-Columbian times to the present. The course follows social, cultural, political, and economic themes in Mexican history, as well as Mexico's relationship with the United States.
- HIS 5585 The ABC Powers (3)**  
This course examines the social, cultural, diplomatic, political, and economic history of three of the largest and wealthiest Latin American nations — Argentina, Brazil, and Chile.
- HIS 5586 The Caribbean (3)**  
A history of the Caribbean region from pre-Columbian times to the present. Topics will include the indigenous population, European colonialism and its legacy, the impact of slavery and racial diversity in the region, cultural and political revolutions, and the area's relationship with the United States.
- HIS 5590 Teaching College History (3)**  
This course examines issues and pedagogy of teaching college-level history. Students will produce a course syllabus, develop and present lectures, and develop assessments for their course content. Students will also observe a variety of teaching styles and begin to understand benefits and problems of a variety of course delivery methods, including online teaching.
- HIS 5595 Selected Topics in History (3)**  
Historical examination of a designed topic of special and/or current interest and importance, which is generally not covered in regularly offered courses by the department. *See semester hour limits listed under Course Restrictions in General Regulations section.*
- HIS 6600 Seminar in 19<sup>th</sup> Century American History (3)**  
An exploration of the major historical works and historiographical controversies in 19th century American history. Emphasis on discussion and student producing a major research paper.
- HIS 6602 Seminar in 20<sup>th</sup> Century American History (3)**  
An exploration of the major historical works and historiographical controversies in 20th century
- HIS 6603 Seminar in 18<sup>th</sup> Century American History (3)**  
An exploration of the major historical works and historiographical controversies in 18th century American history. Emphasis on discussion and student producing a major research paper.
- HIS 6604 Seminar in Modern France (3)**  
The evolution of France from the formation of the Third Republic to the present.
- HIS 6607 Issues in International Affairs (3)**  
With directed reading and periodic discussion sessions, this course serves to expand the student's knowledge of current issues in the global setting. Formerly called *Colloquium in World History*, the course will emphasize recent scholarship and interpretations.
- HIS 6610 Seminar in Comparative Revolutions (3)**  
An examination of background, outbreak, development, and conclusion of the American, French, Russia, and other revolutions.
- HIS 6611 Seminar in 19<sup>th</sup> Century Europe (3)**  
An exploration of the major historical works and historiographical controversies in 19th century European history. Emphasis on discussion and student producing a major research paper.
- HIS 6612 Seminar in 20<sup>th</sup> Century Europe (3)**  
An exploration of the major historical works and historiographical controversies in 20th century European history. Emphasis on discussion and student producing a major research paper.
- HIS 6613 Seminar in British History (3)**  
An exploration of the major historical works and historiographical controversies in British history. Emphasis on discussion and student producing a major research paper.
- HIS 6614 Seminar in Contemporary Japan (3)**  
Study and analysis of Japan from the Meiji reforms to the present; Japan's impact on Asia and the rest of the globe; two world wars, the occupation and U.S. administration; internal changes and resurgence as a world power; the impact of Japan's domestic and foreign policies on other countries; Japan in international activities and as a regional model.
- HIS 6615 Seminar in Latin American History (3)**  
Concentrated study in specialized areas with emphasis on 20<sup>th</sup> century history. *Prerequisite: HIS 5583 or permission of instructor.*
- HIS 6620 Research in International Studies (3)**  
A course designed for the preparation of an original research paper using primary and secondary sources. *Required in Dothan's International Studies Program.*

- HIS 6630 Foundations of Graduate Study in History (3)**  
Introduces the student to the basics of graduate work. Topics covered include the methods of historical research, writing, and citation as well as general themes and topics in historiography. *If taken online, this course is ONLY available in 16 week format. On campus classes are available in the semester format.*
- HIS 6632 American Historiography (3)**  
An overview of the major historical works and historiographical controversies in American history. Emphasis on discussion and students producing a major research paper. *If taken online, this course is ONLY available in 16 week format. On campus classes are available in the semester format.*
- HIS 6634 European Historiography (3)**  
An overview of the major historical works and historiographical controversies in European history. Emphasis on discussion and students producing a major research paper. *If taken online, this course is ONLY available in 16 week format. On campus classes are available in the semester format.*
- HIS 6640 Seminar in 17th Century American History (3)**  
An exploration of the major historical works and historiographical controversies in 17th century American history. Emphasis placed on discussion and students producing a major research paper.
- HIS 6641 Seminar on Slavery (3)**  
An exploration of the major historical works and historiographical controversies in the history of slavery. Emphasis placed on discussion and students producing a major research paper.
- HIS 6642 Seminar in Ethnicity/Race in America (3)**  
An exploration of the major historical works and historiographical controversies in the history of race and ethnicity. Emphasis placed on discussion and students producing a major research paper.
- HIS 6643 Seminar in War and American Society (3)**  
An exploration of the major historical works and historiographical controversies in the history of war and its impact on American society. Emphasis placed on discussion and students producing a major research paper.
- HIS 6650 Seminar in the History of Science (3)**  
An exploration of the major historical works and historiographical controversies in the history of science. Emphasis placed on discussion and students producing a major research paper.
- HIS 6651 Thematic Historiography (3)**  
**6652** An exploration of the major historical works and historiographical controversies in a specific topic not generally covered by the curriculum. Emphasis placed on discussion and students producing a major research paper. Designed to fulfill the historiography component for thematic majors or minors.
- HIS 6653 Seminar in Gender History (3)**  
An exploration of the major historical works and historiographical controversies in gender history. Emphasis placed on discussion and students producing a major research paper.
- HIS 6660 Seminar in Holocaust and Genocide (3)**  
An exploration of the major historical works and historiographical controversies in holocaust and genocide studies. Emphasis placed on discussion and students producing a major research paper.
- HIS 6665 Seminar in Medieval History (3)**  
An exploration of the major historical works and historiographical controversies in medieval history. Emphasis placed on discussion and students producing a major research paper.
- HIS 6666 Seminar in Renaissance and Reformation Europe (3)**  
An exploration of the major historical works and historiographical controversies in European Renaissance and Reformation history. Emphasis placed on discussion and students producing a major research paper.
- HIS 6667 Seminar in Age of Absolutism (3)**  
An exploration of the major historical works and historiographical controversies in the history of European absolutism. Emphasis placed on discussion and students producing a major research paper.
- HIS 6696 Selected Topics in History (3)**  
**6697** An exploration of the major historical works and historiographical controversies in a specific topic not generally covered by the curriculum. Emphasis placed on discussion and students producing a major research paper.
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- HUMAN RESOURCE MANAGEMENT**
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- HRM 6601 Legal Environment of Employment Decisions (3)**  
This course is designed to help the student understand the law as it applies to the management of human resources. Its coverage is aimed at preparing the managers of human resources to recognize legal problems, to know the legal impact of decisions on personnel matters and to be knowledgeable of the law as it might impact individuals in organizations. *All business foundation courses or equivalent are required for MBA, MSM, and MSHRM programs.*
- HRM 6603 Human Resource Management (3)**  
The study of the management of people at work with emphasis on recruiting, selecting, training and evaluating personnel. The study of the use of technology to streamline HR activities. *Prerequisite: All business foundation courses or equivalent.*
- HRM 6604 Labor Law (3)**  
A broad overview of relevant laws, court decisions and administrative agency rulings relating to union/management relations. An introduction to the tech-

niques, strategies and objectives of contract negotiation and collective bargaining in union/management relations. *All business foundation courses or equivalent are required for MBA, MSM, and MSHRM programs.*

**HRM 6619 Seminar in Human Resource Administration (3)**  
Analysis and discussion of current problems and issues in HRM. *All business foundation courses or equivalent are required for MBA, MSM, and MSHRM programs.*

**HRM 6622 Workforce Planning and Staffing (3)**  
A study of theory, principles, and legal requirements for effective workplace planning, recruitment selection, and employment in organizational settings. The course provides an in-depth analysis of tools, techniques and statistical concepts applied to the fundamental HR function of workforce planning and staffing. *All business foundation courses or equivalent are required for MBA, MSM, and MSHRM programs.*

**HRM 6623 Training and Development of Human Resources (3)**  
A study of concepts and practices critical to identifying human resources training and developmental needs critical to ensuring organizational effectiveness. *This course fulfills the research component requirement of the MSHRM program. A grade of "B" or better is required. All business foundation courses or equivalent are required for MBA, MSM, and MSHRM programs.*

**HRM 6625 Specialized Study in the Area of Human Resource Management (1-6)**  
**6627** Study of a problem or problems using research techniques. The study topic requires approval of the student's adviser, the instructor under whom study is to be made, the college dean and the graduate dean. The course requires preparation of a scholarly paper or project and may involve an oral defense. *Total credit for any combination of enrollments in these courses is not to exceed six semester hours. A specialized study, with prior approval, may be substituted for only one required course in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section. Prerequisite: All business foundation courses or equivalent.*

**HRM 6632 Compensation and Benefits (3)**  
This course is designed to provide the student with both the theoretical and practical knowledge to design, administer, and evaluate compensation systems. It will address the application of both tangible and intangible forms of compensation to attract, motivate and retain employees. *All business foundation courses or equivalent are required for MBA, MSM, and MSHRM programs.*

**HRM 6635 Employee Relations and Safety (3)**  
This course is designed to introduce the student to major law requirements, sound employee/labor relations practices, knowledge of safety legislation and

design of effective safety programs. *Prerequisite: All business foundation courses or equivalent.*

**HRM 6645 International Human Resource Management (3)**  
A survey of theory and practice of human resource management in global firms and issues of cross cultural communication and behavior affecting organizational effectiveness in culturally diverse organizations. *Prerequisite: All business foundation courses or equivalent.*

**HRM 6689 Human Resource Management Internship (3)**  
Must be unconditionally admitted to the Master of Science in Human Resources Management program, must have less than one year's work experience in the Human Resources Management field, must not be currently employed in any capacity by a firm or organization sponsoring the internship, must have completed at least four required courses by the start of the semester in which the internship begins (i.e., courses should include HRM 6603 and at least one of the following courses: HRM 6622, HRM 6623, or HRM 6632, as approved by the student's academic adviser). At least one semester prior to registration for the internship, students must submit a written request to the faculty adviser who will supervise the internship. The request should include the student's reasons for wanting to participate in the internship program as well as the goals the student hopes to achieve. The internship request must be approved prior to registration for credit.

**HRM 6698 Strategic Human Resource Management (3)**  
This course focuses on an integration of theories and concepts related to the formulation and implementation of human resource strategies to support business strategies. Students analyze case studies, identify problems and their causes, and propose solutions both orally and in writing. The course is also designed to broaden the student's exposure to the classical and contemporary literature of human resource management. *A grade of B or better is required. Prerequisites: Successful completion of all required HRM core courses. Entrance into HRM 6698 may be permitted with Department head approval as long as only one core course has not been completed and it is being taken concurrently with HRM 6698.*

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#### HEALTH SERVICES ADMINISTRATION

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**HSA 6625 Specialized Study in the Area of Healthcare Management (1-3)**  
**6627** 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. 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. *Prerequisite: All business foundation courses or equivalent.*

**HSA 6680 Health Services Administration and Policy (3)**  
Focuses on the unique characteristics of the U.S. healthcare delivery system; acquaints students with increased understanding of the context of health services administration and healthcare policy; and examines key factors and forces impacting total health system performance in the United States. *Co or Prerequisite: BUS 5501*

**HSA 6681 Legal and Social Issues in Health Administration (3)**  
Includes an examination of legal and ethical aspects of contemporary issues associated with the health services administration process. *Prerequisite: BUS 5501*

**HSA 6682 Healthcare Planning and Management (3)**  
This course stresses application of traditional management concepts to a variety of health service operational issues, analyzes similarities and differences in management of health service organization (HSO) and other organizational models, formulates new organizational designs and management practices appropriate to current HSO environments, and evaluates adequacy of new models. *Prerequisite: All business foundation courses or equivalent.*

**HSA 6683 Healthcare Economics (3)**  
This course stresses economic analysis applied to the health services sector.

**HSA 6684 Managed Care: Origins, Organizations, and Operations (3)**  
Covers managed care programs, structures, practice models, role of physicians and other clinicians, capitation, cost-accounting and forms of reimbursement. *Prerequisite: All business foundation courses or equivalent.*

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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. Grading system is Pass/Fail.*

**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. *Grading system is Pass/Fail.*

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### INSTRUCTIONAL LEADERSHIP AND ADMINISTRATION

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**ILA 6603 Tools for Managing Educational Resources (3)**  
This course teaches instructional leadership candidates the skills and knowledge needed to conduct school business. Candidates will learn to manage a school's educational resources. This course will focus on the following areas: organizational skills, financial planning, facilities management, technology usage, and principles and best practices needed to manage a school. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6607 Readings in Leadership (3)**  
This course explores current literature and thinking in the field of organizational and administrative theory and practice pertaining to instructional leadership. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6609 Communication and Problem Solving (3)**  
This course is designed to improve the instructional leadership candidates' skills in communication and problem solving. Emphasis will be placed on listening skills, group dynamics, conflict resolution and consensus building. Special attention will be given to these topics while working with ethnically diverse populations. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6610 Grant Writing (3)**  
This course explores how to write a grant and discusses alternative ways of fundraising. Particular attention will be given to grant writing protocols and procedures, as well as dynamics involved in responding to a Request for a Proposal, and understanding the school system's bureaucratic structures. *Prerequisite: Admission into an NCATE approved instructional leadership program.*

**ILA 6611 Community Relationships**  
The instructional leader realizes that there is great power in the community that can assist in increasing student achievement. This course will provide strategies that will enable the instructional leader to involve the community in meaningful ways and will result in significant student achievement. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6613 Legal Dimensions of Education (3)**  
Public schools are among the most regulated industries in the United States. Constitutional, Legislative, and Judicial mandates control everything from the length of the school day/year to who is qualified to teach. This course will examine the legal precedents that impact instructional leaders. Distinct attention will be given to special education law,

Constitutional freedoms, personnel law, civil law and to federal and state mandates related to student accountability. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6625 Specialized Topics in Instructional Leadership (3)**

A seminar concerned with an in-depth examination of one topic that is acutely important to instructional leadership. Candidates are expected to use primary resources, journals, and the Internet to research and discuss the topic. The primary format of the class will be discussion, although group exercises, individual presentations and written responses will also be used. *Pre-requisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6633 Instructional Leadership (3)**

This course examines the essence of instructional leadership. It considers the importance of being able to develop and articulate a vision. The focus of the course centers on those leadership abilities and traits that promote student achievement for all students. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6640 Building and Maintaining Collaborative Learning Environments (3)**

With the changes mandated by the 2007 reauthorization of the Individuals with Disabilities Act (IDEA), it is vital for instructional leaders to be aware of their responsibilities in the development and maintenance of collaborative learning environments. This course will present the most up-to-date research related to collaborative learning environments as well as how to establish and promote them. *Pre-requisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6643 Human Resource Administration (3)**

This course is designed to deal with the selection, staffing, and development of all school personnel. Salary schedules, personnel policies, and fringe benefits will be studied. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6658 Working with Diverse Populations (3)**

According to recent demographic predictions, the American classroom will continue to increase in diversity. According to some estimates, within the next 20 years ethnic minorities will become the majority. To succeed in this changing world, instructional leaders must be prepared to lead a diverse learning environment. This course will provide instructional leadership candidates with the skills, abilities, dispositions, and strategies to foster learning environments where all children including those with special needs, can experience success. *Pre-*

*requisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6662 Orientation in Instructional Leadership & Administration (2)**

This course is designed to orient the instructional leadership candidate to the expectations and requirements of the instructional leadership administration program. Course content includes assessments of learning approaches as well as leadership aptitudes and skills. The residency and mentoring components of the programs, as well as other program requirements are covered. *Pre-requisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6663 Practicum I (2)**

The purpose of this course is to provide instructional leadership candidates with school-based experiences at the elementary, middle, secondary grade levels as well as the central office level supervised by full-time university faculty members and approved local mentors. The intern will gain school-based experiences in planning, for continuous improvement, teaching and learning, human resource development, diversity, community and stakeholder relationships, and technology. *Pre-requisites: ILA 6662. Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6664 Practicum II (2)**

The purpose of this course is to provide instructional leadership candidates with school-based experiences at the elementary, middle, secondary grade levels as well as the central office level supervised by full-time university faculty members and approved local mentors. The intern will gain school-based experiences in leading, teaching, and learning. *Prerequisites: ILA 6663. Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6684 Curriculum and Instructional Strategies (3)**

Which instructional practices support the highest gains in student achievement? If one reads the publicity enclosed with new programs, they all do! How is the busy instructional leader to know how to separate the genuine instructional practice from the fad? This course examines the current research that supports student learning and engagement. In order for instructional leaders to promote effective learning environments, they must be able to understand, identify, and apply effective learning theories and methodologies. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 6691 Research Methods (3)**

This course is a study and evaluation of a variety of research methods; including but not limited to quantitative, qualitative, and action research, and reporting formats used in education and the social scienc-

es. *Prerequisite: Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program. A grade of "B" or better is required.*

**ILA 6692 Using Data to Make Decisions (3)**

This course focuses on basic statistical processes and measures used in education. It provides an opportunity for the student to analyze a variety of standardized prognostic, diagnostic, and achievement tests. Candidates will also learn to collect data from teacher and student observations to obtain knowledge concerning teacher evaluation. *Prerequisites: ILA 6691. Restricted to candidates who are admitted to a State of Alabama approved Instructional Leadership & Administration program.*

**ILA 7700 Adult Learning Theories and Managing Change (3)**

This course will focus on the examination of how adults learn in instructional settings and managing change. The adult learners' characteristics will be examined. Adult learning theory and current trends on advancement in adult learning and managing change will be examined. The focus will be on preparing the student to make better instructional decisions and use of resources in the education and training of adults.

**ILA 7702 Involving Parents and Community Stakeholders (3)**

The focus of this course is on the successful school and what it must do to garner parental involvement and community support that it needs. This course is a combination of theory of community relations (why must communities support local schools to achieve their goals?) and a primer on how to develop the family and community partnership which will help the school to achieve its goals.

**ILA 7703 Law, Ethics, and Policy Development (3)**

This course considers the relationship between policy and school operations. The candidate will have the opportunity to explore firsthand the creation, development and evaluation of policy, specifically educational policy. A review of ethics and the law will help to understand the role that policy plays in the daily affairs of education.

**ILA 7717 Mentoring (3)**

The purpose of this course is to prepare educational leaders to serve as role models and mentors for individuals. The educational leaders will develop methods, techniques and organize mentorship programs. Leaders will develop a knowledge base upon which to make informed reflective decisions about mentorship programs in diverse educational settings.

**ILA 7740 Creating Effective Learning Environments (3)**

Instructional leaders must work within the framework of the Individual with Disabilities Education Act (IDEA) in order to effectively create, develop and maintain a highly efficient learning environment. This course will present best practices and the most up to date research related to the creation of

effective learning environments within the public schools. The focus of the course will be both theoretical and practical in nature. As a result of the course, instructional leaders will be able to establish, develop, maintain and evaluate instruction in order to build an effective learning environment.

**ILA 7746 Organization and Human Resource Development (3)**

The greatest asset any organization possesses is its employees. Current research indicates that organizations routinely report 80% of the expenses go to employee compensation. This figure underscores the need for skills to increase the performance of this very important asset. This course examines the leadership of human resources and what it takes to create an environment where employees can thrive.

**ILA 7791 Current Trends and Issues in Instructional Leadership (3)**

Examines the trends and issues that arise impacting educational policy. Emphasizes group and individualized integration of theory and application of professional knowledge toward a given trend and /or issue affecting public education from a national, state, or school-based level.

**ILA 7792 Advanced Comprehensive Research Strategies (3)**

This course is intended to explore the concepts of quantitative and qualitative research methods application for research in education. Participants apply their skills in research design by completing a proposal for a substantive study related to the improvement of instructional services. *A grade of "B" or better is required.*

**ILA 7793 Program Evaluation (3)**

This course focuses on a variety of concepts and strategies associated with effective planning in Educational and Human Services organizations.

**ILA 7794 Research in Action (3)**

The purpose of this course is to provide instructional leaders with a study of the processes involved in identifying, framing, evaluating, analyzing and seeking information about problems faced by schools. The goal for the student is to propose a research and implement a study that examines a problem currently impacting the K-12 school setting.

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**INTERNATIONAL RELATIONS**

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**IR 5502 International Political Geography (3)**

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.

**IR 5524 Contemporary American Foreign Policy (3)**

An examination of the foreign policies processes of the United States including historical traditions, political institutions, economic and military capabilities, the Congress, the Presidency, interest groups, the media, and public opinion.

- IR 5533 Comparative Government (3)**  
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.
- IR 5551 Survey of International Relations (3)**  
A survey of the discipline of International Relations (IR) introducing IR theory, power, national interests, instruments of foreign policy, international law and organizations, international political economy, comparative government, and research methodology.
- IR 5552 International Law (3)**  
An examination of the sources and development of international law from historical, political, legal, and philosophical standpoints, with emphasis on substantive areas of law.
- IR 5570 Politics of Southeast Asia (3)**  
A study of politics in the Philippines, Indonesia, Vietnam, Laos, Cambodia, Malaysia, Singapore, Brunei, Myanmar, and Thailand, investigating the historical and cultural factors affecting relationships within and outside the region.
- IR 6600 Selected Topics in International Relations (3)**  
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.*
- IR 6601 Research Methods in International Relations (3)**  
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. *Note: MSIR candidates must achieve a grade of "B" or better in IR 6601 to complete degree program requirements.*
- IR 6602 Geostrategic Studies (3)**  
An examination of 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.
- IR 6610 International Organizations (3)**  
An examination of 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.
- IR 6612 Comparative Public Policy (3)**  
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.
- IR 6620 International Political Economy (3)**  
An examination of the interrelationships between international politics and economics covering theories of International Political Economy, states and markets, trade, foreign investment, international monetary affairs, foreign aid, state development strategies, and globalization.
- IR 6625 Specialized Study in International Relations(3)**  
**6626**  
**6627**  
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. Prerequisite: IR 6601. See semester hour limits listed under Course Restrictions in General Regulations section.*
- IR 6629 Seminar in International Relations (3)**  
**6630**  
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 and must 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 with a focus on the political, economic, and cultural issues relevant to the regional and global relations of the states involved.
- IR 6634 Tradition, Revolution, and Change (3)**  
An interdisciplinary, cross cultural approach to the study of comparative cultural change and its impact on the international system; it examines the origins, processes, and outcomes of sociopolitical change within various nations and states.
- IR 6635 National Security Policy (3)**  
An examination of the structures, motivations, and major objectives of national security policymaking from a comparative perspective with particular emphasis on the politics of national defense in the United States.
- IR 6640 Government and Politics of Developing Countries (3)**  
An analysis of the government and politics of developing states including economic, social, and cultural perspectives and strategies pursued for growth and development.

- IR 6641 Latin America in World Affairs (3)**  
An examination of Latin American politics, legal systems, economics, culture, military power, geography, and their impact on Latin American regional relations and linkages to the world system.
- IR 6642 Russia and Eastern Europe in World Affairs (3)**  
An examination of Russia and Eastern Europe's politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.
- IR 6644 Middle East in World Affairs (3)**  
An examination of Middle East politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.
- IR 6645 Asia in World Affairs (3)**  
An examination of Asia politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.
- IR 6646 South Asia in World Affairs (3)**  
An examination of the intrastate and global relationships of South Asia; the course will focus on India and Pakistan, but also cover Bangladesh, Sri Lanka, and additional states in South Asia to engage the student in the security, political, cultural, and social aspects of the region.
- IR 6647 Western Europe in World Affairs (3)**  
An examination of Western Europe and the European Union, including state and EU politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.
- IR 6648 Sub-Saharan Africa in World Affairs (3)**  
An examination of Sub-Saharan politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.
- IR 6650 Environmental Security, Conflict and Development (3)**  
An analysis of how environmental issues such as resource scarcity, desertification, loss of biodiversity, global warming, etc., may influence development and/or affect the national security of nation-states, communities and individuals. The course also examines the evolution and function of global environmental governance institutions including international organizations (IGOs), transnational non-governmental organizations (NGOs), and legal/regulatory structures.
- IR 6652 Theory and Ideology in International Relations (3)**  
An examination of historical and contemporary theories in international relations; the role of political, economic, ethnic, religious and other belief systems or philosophical approaches within the global system.
- IR 6653 Political Psychology (3)**  
An examination of the impact of individual and collective human behavior on the political process including an introduction to the methods of inquiry into a society's belief system, social cognition, socialization, and political behavior. Special attention is placed on the behavioral sources of political violence, the relationship between culture and political behavior, and collective alienation.
- IR 6654 Media, Technology, and International Politics (3)**  
An examination of the role of media in international politics with particular emphasis on the impact of technological change. The course explores issues related to cultural change 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)**  
An analysis of 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 such as 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 including the effectiveness of political communications, public relations, foreign aid, economic sanctions, threats of force, and limited uses of force.
- IR 6660 Military Strategy and International Relations (3)**  
An examination of the core ideas of classical and contemporary military strategists, the international context that inspired their strategic concepts, and a review of the interaction and influence of armed forces and their leadership and strategies on national security policies and interstate relationships.
- IR 6665 Readings in International Relations (3)**  
A guided program of readings and study in international relations related to the needs of the student. *Enrollment must be approved by the department chair. See semester hour limits listed under Course Restrictions in General Regulations section.*
- IR 6668 Thesis (3)**  
**6669** A directed research in selected areas of international relations, based on a student's proposal, related to the student's needs, and with the advice and approval of a faculty thesis adviser, and culminating in a research paper of appropriate depth and scholarship. The final, bound product must be approved by a faculty committee composed of the thesis adviser and a faculty reader. The first course will cover the paper design and supporting research; the second course will be undertaken to support the actual writing of the thesis. *Prerequisites: IR 6601 and the satisfactory completion of 30 semester hours in the MSIR program. Grading system is Pass/Fail.*
- IR 6670 United Kingdom in World Affairs (3)**  
An examination of the United Kingdom and its relations with the global community; the course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.

- IR 6672 Germany in World Affairs (3)**  
An examination of Germany and its relations with the global community; the course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.
- IR 6675 Central America in World Affairs (3)**  
An examination of the Central American region and its relations with the global community; the course will involve the student in the political, cultural, and social aspects of regional states and their relations with other states.
- IR 6676 Japan in World Affairs (3)**  
An examination of Japan and its relations with the global community; the course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.
- IR 6677 China in World Affairs (3)**  
An examination of China and its relations with the global community. The course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.
- IR 6681 Tribalism and Colonialism in Africa (3)**  
An investigation of the politics that govern tribalism and colonialism, the sociological influences it has induced, and how the two concepts impact the people of Africa today.
- IR 6685 Terrorism and Political Violence (3)**  
An examination of the origins and significance of contemporary political violence with an emphasis on the phenomenon of terrorism. The course employs an interdisciplinary, case-study approach.
- IR 6686 Drug Politics in the Americas (3)**  
An investigation of the issues surrounding the trafficking of illicit narcotics in the Western Hemisphere, with special attention to the Andean region and those states which act as conduits to the vast market in the United States; the course examines both the political and security problems arising from the drug trade, as well as the basic debate concerning the formulation and implementation of U.S. drug policy.
- IR 6687 Free Trade and Economic Integration in the Western Hemisphere (3)**  
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.
- IR 6688 Islamic Fundamentalism (3)**  
An advanced seminar dealing with the theology and practice of Islam and its impact on international, legal, political, security, and social issues.
- IS 6672 Information Systems and Business Strategy (3)**  
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. *Prerequisite: All business foundation courses or equivalent.*
- IS 6674 Information Systems Management (3)**  
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. *Prerequisite: All business foundation courses or equivalent. A grade of "B" or better is required.*
- IS 6676 E-Commerce for Global Business (3)**  
Introduces state-of-the-art concepts and applications which are emerging in the field of electronic commerce. *Prerequisite: All business foundation courses or equivalent.*
- IS 6679 Management Information Systems (3)**  
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. *Prerequisite: All business foundation courses or equivalent.*

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## JOURNALISM

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- JRN 6615 Public Relations and Strategic Communication**  
Students will examine how the changing media environment affects outreach methods and explores practical solutions to achieve communication goals. Emphasis is placed on crisis public relations problems. Topics include the importance of research, designing a strategic communication program, advertising and the pervasive effect of public relations.
- JRN 6640 Communication Law and Ethics (3)**  
This course provides students with an indepth understanding of existing communication ethics, regulations and policies along with their application to media. Students will study how these legal doctrines and ethical considerations have evolved and will continue to evolve.
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- INFORMATION SYSTEMS**
- IS 6625 Specialized Study in the Area of Information Systems (1-3)**  
**6626**  
**6627** Study of problem or problems using research techniques. Selection of the problem must be approved

<b>KINESIOLOGY AND HEALTH PROMOTIONS</b>	
<b>KHP 6601</b>	<p><b>Philosophy and Principles of Health and Physical Education (3)</b></p> <p>This course will introduce the sociological- psychological, educational-motor learning, mechanical-kinesiological, and physiological aspects of health and physical education.</p>
<b>KHP 6602</b>	<p><b>Motor Skills and Human Performance (3)</b></p> <p>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>
<b>KHP 6604</b>	<p><b>Statistical Analysis and Interpretation (3)</b></p> <p>This course requires graduate students to utilize statistical fundamentals, analyses, and interpretation of statistics. Statistical information includes, but is not limited to, sampling, hypothesis testing, regression, frequency distributions, t-tests, parametric and nonparametric statistical techniques, multivariate data analysis (MANOVA), and others using SPSS and other statistical software.</p>
<b>KHP 6610</b>	<p><b>Physical Education, Sport and the Law (3)</b></p> <p>The course is designed to provide students with an in-depth awareness and understanding of legal responsibilities of sport managers, coaches, and administrators. Emphasis will be placed upon critically analyzing the legal theories, structures, statutes, case law, and standards that apply to the sport industry and that impact sport organizations. Substantive legal areas include tort, constitutional, antitrust, intellectual property, agency, contract, and business law.</p>
<b>KHP 6615</b>	<p><b>Organizational Behavior &amp; Leadership in Sport (3)</b></p> <p>In this course students will study the basic concepts, theories and organization of administration including financial management as applied to sport, physical education, and recreation.</p>
<b>KHP 6616</b>	<p><b>Sport Finance (3)</b></p> <p>This course is designed to provide students with information concerning advanced theory in finance, accounting, and managerial control of budgets.</p>
<b>KHP 6617</b>	<p><b>Research Methods I (3)</b></p> <p>An independent exploration of the literature and current research in the fields of Health Education and Physical Education. <i>A grade of "B" or better is required.</i></p>
<b>KHP 6620</b>	<p><b>Physical Fitness: A Critical Analysis (3)</b></p> <p>This course is designed to prepare the student for the American College of Sports Medicine (ACSM) Health Fitness Specialists (HFS) certification. The course will examine the process of pre-participation health screening and risk stratification, administration of physical fitness assessments, and interpretation of results and the development of appropriate exercise prescriptions used in the evaluation and improvement of human fitness. <i>Prerequisite: KHP 6650</i></p>
<b>KHP 6621</b>	<p><b>Supervision of Instruction in Health and Physical Education (3)</b></p> <p>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.</p>
<b>KHP 6623</b>	<p><b>Biomechanics of Sport Techniques (3)</b></p> <p>This course is designed to prepare the student for the National Strength and Conditioning Association (NSCA) Certified Strength and Conditioning Specialist (CSCS) certification. The course explores basic biomechanical concepts and their application in the analysis of sport technique. Students will apply scientific knowledge to examine sport-specific testing assessments and interpretation of results, and practice the implementation of safe and effective training techniques for the goal of improving athletic performance. <i>Prerequisite: KHP 6650</i></p>
<b>KHP 6625</b> <b>6626</b> <b>6627</b>	<p><b>Specialized Study in KHP (1-3)</b></p> <p>A study of the 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 Graduate Studies. The study should contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. <i>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.</i></p>
<b>KHP 6630</b>	<p><b>Programs in Health and Physical Education (3)</b></p> <p>The course is designed for prospective classroom teachers and health and physical educators who assume the responsibility of providing meaningful learning experiences for children in the area of health and physical education.</p>
<b>KHP 6631</b>	<p><b>Programs in Health and Physical Education (3)</b></p> <p>The course reviews appropriate curriculum for children of various age levels. Particular attention is devoted to a study of the capacities, attitudes, and needs of pupils as they are related to health and physical education. The principles, problems and procedures in the development of a health and physical education curriculum are thoroughly examined.</p>
<b>KHP 6632</b>	<p><b>Critical Issues in Sport and Fitness Management and Health and Physical Education (3)</b></p> <p>Recognition, discussion, and systematic analysis of controversial issues and problems encountered in the conduct of professional activities in health and physical education.</p>
<b>KHP 6640</b>	<p><b>Sport Marketing: Physical Education, Athletics, Recreation and Intramurals (3)</b></p> <p>The purpose of this course is to teach educators how to create a marketing plan. The emphasis is on following a ten-step procedure designed primarily for the non-profit sector and learning the theoretical</p>

base required to complete the process accurately and proficiently.

**KHP 6650 Sport Nutrition and Exercise Metabolism (3)**

This course examines established dietary requirements of athletes relative to performance, training, and recovery. Emphasis will be placed on the use of peer reviewed literature to understand the importance of pre- and post-event nutrition, nutritional issues faced by athletes, and possible ergogenic strategies, foods, and dietary supplements. Examination of metabolic pathways and will allow advanced interpretation of the metabolism and macronutrients during conditions of exercise and disordered metabolism. *Prerequisite: KHP 6670*

**KHP 6662 Diagnostic and Prescriptive Physical Education for Exceptional Children (3)**

The course is designed to present assessment procedures, exercise prescription techniques, physical education program development, and IEP programming for the child with special needs.

**KHP 6670 Exercise Physiology (3)**

This course examines acute and chronic physiological responses to the respiratory, cardiovascular, and musculoskeletal systems to the demands of exercise. Contributions made by aerobic and anaerobic metabolism to energy production will be examined. The contribution of various physiological variables will be investigated to facilitate an understanding of the physiological basis of human performance.

**KHP 6671 Advanced Exercise Physiology (3)**

This course will allow students to experience and explore advanced concepts, topics, and laboratory techniques related to exercise physiology. Material covered in this course will prepare students to interpret, conduct, and share advanced material with their peers. Students will have the opportunity to implement an advanced research project or commence thesis-related research. *Prerequisite: KHP 6650*

**KHP 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.

**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 awareness and understanding of basic concepts and problems in starting a business.

**KHP 6680 Practicum in Physical Education (3)**

A supervised application of concepts, principles, instructional, curriculum, and delivery skills acquired by students in previous coursework. Students will identify issues regarding classroom management, testing, and evaluation in physical education. Students will explore innovative ideas for the classroom and research peer reviewed journals for information for application in the classroom setting.

**KHP 6691 Research Methods II (3)**

This course examines the variety of research methods and reporting methods used in health & physical education research. A grade of "B" or better is required. *Prerequisite: KHP 6604 and KHP 6617 with a "B" or better.*

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**LAW**

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**LAW 6600 Business Law for Accountants (3)**

This course focuses on the legal implications of business transactions, particularly as they relate to accounting and auditing. It includes, but is not limited to, such topics as contracts, commercial paper, secured transactions, business organizations, and real and personal property. This course is designed to give a review of basic legal principles and to enable a student to recognize and understand their legal significance in business transactions. *Prerequisite: LAW 2221 or equivalent and all business foundation courses or equivalent.*

**LAW 6610 Legal Issues for Accountants (3)**

This course focuses on the legal implications of business transactions, particularly as they relate to accounting and auditing. It includes, but is not limited to, such topics as ethics, professional and legal responsibilities, agency, contracts, Uniform Commercial Code, debtor-creditor relationships, government regulation of business, and business structure. This course is designed to give a review of basic legal principles and to enable a student to recognize and understand their legal significance in business transactions. *Prerequisite: All business and accounting prerequisites.*

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**MARINE BIOLOGY (MB)**

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**Offered at Dauphin Island Sea Lab (DISL) only**

*Courses are offered during the summer semester only. Since course offerings change, check the current DISL summer bulletin for specific course offerings and descriptions and contact the Marine Biology Adviser at Troy.*

*The courses listed below are taught at Dauphin Island Sea Lab in the summer only. The faculty members are recruited from many colleges and universities within and outside Alabama. The courses are identified by an MB prefix.*

*All Marine Biology courses for graduate students have the prerequisites of General Chemistry and Ecology, or the equivalents.*

**MB 5502 Marine Invertebrate Zoology (4)**

A study of the natural history, systematics, and morphology of marine invertebrates from a variety of habitats in the Gulf of Mexico. Participation in extended field trips is part of the course.

**MB 5503 Marine Vertebrate Zoology (4)**

A study of the biology of marine vertebrates emphasizing systematics, behavior, physiology, and ecology of local forms.

**MB 5504 Marine Botany (4)**

A general survey of algae and vascular plants associated with the marine and estuarine environment.

- MB 5510 Introduction to Oceanography (4)**  
A general introduction to the physics, chemistry, geology, and biology of the oceans.
- MB 5519 Marine Aquaculture (2)**  
Techniques in live animal culture with an emphasis on basic principals that can be applied to the culture of any organism for research, display, or commercial profit.
- MB 5523 Marine Ecology (4)**  
Lecture and laboratory studies of bioenergetics, community structure, population dynamics, predation, competition, and speciation in marine ecosystems.
- MB 5528 Shark and Ray Biology (2)**  
An introduction to the biology of sharks and rays, with special emphasis on regional shark fauna and field techniques.
- MB 5532 Biology and Conservation of Marine Turtles (2)**  
An overview of the biology and conservation of marine turtles, including identification, distribution, nesting behavior, migratory behavior, and feeding ecology.
- MB 5538 Coastal Wetlands Ecology (4)**  
The course will focus on coastal and near shore wetland areas, with an emphasis on the biogeochemical processes that occur within.
- MB 5560 Introduction to Neurobiology (4)**  
The study of the structure, development, physiology, and pharmacology of the nervous systems and sense organs. *Prerequisite: Permission of the instructor.*

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#### MASTER OF BUSINESS ADMINISTRATION

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- MBA 6611 Business Strategy (3)**  
This course is the capstone course in the MBA 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 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, ECO 6655, FIN 6631, MKT 6661 and QM 6640; or approval of the department chair. Students should be in the last term of their program when completing this course.*

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#### MASTER OF BUSINESS ADMINISTRATION— INTERNATIONAL

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- MBAI 6601 International Business Law (3)**  
An overview of international business law as it applies to a multinational business operating in a global environment. *Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

- MBAI 6611 Global Strategic Management (3)**  
This course is a capstone course in the MBAi program. It integrates skills and knowledge developed in earlier courses and emphasizes case analysis. Formulation and implementation of strategies are stressed. The course includes two program assessments. A grade of "B" or better is required to complete this course successfully. The course may not be transferred into the MBAi program. *Prerequisites: Graduate standing, Admission into the MBAi degree program and all business pre-requisite courses as well as completion of a minimum of 18 SH in the MBAi program with a B average or better, including MBAI 6655, Managerial Economics for the Global Executive, MBAI 6631 Global Financial Management, MBAI 6691 Financial and Managerial Accounting, MBAI 6640 Data Analysis for International Management, MBAI 6661 Global Strategic Marketing, MBAI 6663 Emerging Markets in a Global Economy, and MBAI 6694 Field Research/International Immersion or approval of the program director. Students should be in the last term of their program when completing this course.*

- MBAI 6613 Seminar in International Management (3)**  
Coverage of the management issues corporations face when doing business internationally. Topics include culture, corporate strategy and structure, cross-cultural communication and negotiation, and international human resource management issues. Unlike other classes that tend to be U.S.-centric, this class presents core theories and models from a global perspective. Students are presented with the fundamental theories of international management so they will be prepared to make decisions in any business situation. These theoretical issues are supplemented and reinforced with an array of real-world, concrete models of the many educational, sociological, legal-political, and cultural restraints they will undoubtedly face during a career in international business. *Prerequisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

- MBAI 6615 Ethical Management and Leadership in a Global Economy (3)**  
Equips students with the critical leadership skills and solid understanding of today's ethical theory they need to become effective business leaders in today's turbulent times. The class explores the latest thinking in leadership theory and contemporary practices at work within organizations throughout the world. Closely connects theory to recent world events, such as the Wall Street meltdown, ethical scandals, and political turmoil. Students examine emerging topics, leadership vision and courage, leading virtual teams, and actual leadership decisions. This is a research applications course, with a solid foundation grounded in established scholarly research. *A grade of "B" or better is required. Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

- MBAI 6631 Global Financial Management (3)**  
A comprehensive and advanced study of financial

analysis, planning, and control techniques for a business entity with emphasis on corporations in a global setting. *Prerequisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6632 Corporate Financial Reporting (3)**

A study of corporate financial accounting topics, including income and expense recognition, recording of assets and liabilities, and financial statement presentation. *Pre-requisites: Graduate standing, acceptance into the MBAi program, completion of all undergraduate business pre-requisite courses or equivalent, completion of MBAI 6691 Financial and Managerial Accounting for the International Executive.*

**MBAI 6633 Cases in International Finance (3)**

A representative sampling of case studies in international finance. This is a research course. A grade of "B" or better is required. *Pre-requisites: Graduate standing, acceptance into the MBAi program, completion of all undergraduate business pre-requisite courses or equivalent, completion of MBAI 6631 Global Financial Management.*

**MBAI 6640 Data Analysis for International Management (3)**

This applied course provides the skills managers need to analyze data quantitatively and to make decisions using spreadsheet modeling tools. As a basic understanding of statistical concepts is assumed, the focus will be on the application of these concepts. Topics covered include probability distributions, statistical inference, regression analysis, time series analysis and forecasting, quality management, and an introduction to simulation. *Prerequisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6651 Accounting Systems and Control (3)**

An advanced study of accounting information systems concepts, applications, and control issues. Case studies will provide the students an opportunity to relate systems concepts to the actual problems encountered in the analysis, design, implementation, and utilization of computer-based information systems. *Pre-requisites: Graduate standing, acceptance into the MBAi program, completion of all undergraduate business pre-requisite courses or equivalent, completion of MBAI 6691 Financial and Managerial Accounting for the International Executive.*

**MBAI 6655 Managerial Economics for the Global Executive (3)**

A study of the decision-making process of business managers operating in a global economy. The efficacy of market-based approaches to real-world problems is considered. Various theories of the firm and managerial strategies are used to study the optimal decision-making rules for business firms when such firms must operate under conditions of uncertainty and in a global environment. *Prerequisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6661 Global Strategic Marketing (3)**

An application of marketing concepts, principles and procedures for planning, development, implementation and control of marketing programs in profit and non-profit global organizations. Emphasis is on the matching of organization resources and strengths with global marketing opportunities, and strategies to overcome international market environmental threats. *Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6663 Emerging Markets in a Global Economy (2)**

This course helps students understand broad economic trends and analyzes the rapidly growing economies of the world. The course will emphasize the role of market institutions in fostering trade, development, and job creation. *Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6665 Investing in Multinational Markets (3)**

An investments course which identifies and analyzes various forms of investments: debt and equity securities, derivatives, commodities and government securities in a multinational setting. The course also includes discussion of multinational securities markets and stock exchanges. Particular emphasis is placed on the selection of securities based on multinational risk and expected rate of return considerations. *Pre-requisites: Graduate standing, acceptance into the MBAi program, completion of all undergraduate business pre-requisite courses or equivalent, completion of MBAI 6631 Global Financial Management.*

**MBAI 6674 Information Systems in the Global Economy (3)**

This course provides the conceptual and practical foundations of information systems to include support of management and decision-making functions; computer system project management; economic, ethical, and legal considerations of management information systems; and system implementation/evaluation. This course includes the categories of information systems and their appropriate usage, the activities and issues involved in the development and implementation of information systems, hardware and software components of information system, communication and network hardware and software components, and security issues in information system within an International context. *Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6675 Information Security and Assurance in a Global Economy (3)**

This course introduces the various technical and administrative aspects of information security and assurance within a global networked environment and provides the foundation for understanding the key issues related to them. Topics covered include inspection and protection of information assets, detection of and reaction to internal and external

threats, determining the levels of protection needed, and the design of a consistent, reasonable information security architecture along with an implementable process. Other topics include technical and managerial aspects of a wide range of policies and issues relating to reporting and monitoring, upgrading and patching, intrusion detection, maintenance and mining of security logs, backup and recovery and global issues related to trans-border data flow and intellectual property rights. *Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6676 E-Commerce for Global Business (3)**

This course introduces the theoretical and practical issues of e-commerce system including the planning and development of an e-commerce site, security and risk management in e-business, electronic payment methods, and online marketing strategies in an international context. The course also provides the students an opportunity to explore and evaluate current e-commerce technologies and the effects on the global company, potential benefits of electronic commerce, and international online strategies. *Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6678 International Information Technology Project Management (3)**

This course discusses the processes, methods, techniques, tools, issues, and practices that organizations use to manage their international information system projects. The course covers a systematic methodology for initiating, planning, executing, controlling, and closing projects. This course assumes that project management in a global organization is a complex team based activity, where various types of technologies including project management software as well as software to support group collaboration are an inherent part of the project management process. This course also acknowledges that project management involves both the use of resources from within the firm, as well as contracted from outside the organization. *Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6679 Leadership Series on Information Technology (3)**

This course consists of seminars and a final semester student report. Seminars will be given by information systems and technology (IT) leaders; each seminar will be followed by a session of questions and informal gathering. Seminar topics and speakers chosen based on the progression of other courses in the program and will have an international context. Each semester, students have the opportunity to complement their in-class learning experience with related practical experience from IT leaders. At the end of a semester, students must submit a written report summarizing these seminars, relating them to their coursework, and highlighting their practical relevance. This is a research course. *A grade of "B"*

*or better is required. Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6691 Financial and Managerial Accounting for the International Executive (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. *Pre-requisites: Graduate standing, acceptance into the MBAi program and all undergraduate business pre-requisite courses or equivalent completed.*

**MBAI 6692 Advanced Management Accounting (3)**

An advanced study of accounting as it relates to business decisions, with emphasis on advanced topics, cases, and readings in cost management and strategic decision making. *Pre-requisites: Graduate standing, acceptance into the MBAi program, completion of all undergraduate business pre-requisite courses or equivalent, completion of MBAI 6691 Financial and Managerial Accounting for the International Executive.*

**MBAI 6694 Field Research/International Immersion (1)**

This course will be developed as required by designated faculty and will fall within the purview of Emerging Markets in a Global Economy. For example, a trip to visit a number of businesses engaged in export activity can be arranged, or an overseas trip conducted by a tour agency to visit overseas firms during a break period with a faculty member is feasible. The student would need to obtain a letter of approval from the relevant faculty member confirming registration or completion of this course to allow for registration in the capstone course Global Strategic Management. *Pre-requisites: Graduate standing, acceptance into the MBAi program, all undergraduate business pre-requisite courses or equivalent completed and at least 12SH completed in the MBAi program.*

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**MANAGEMENT**

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

**6626** Study of a problem or problems using research  
**6627** 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. 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 transferred in from another institution. See semester hour limits listed under Course Restrictions in General Regulations section. Pre-requisites: All business foundation courses or equivalent.*

**MGT 6645 Quantitative Methods in Management (3)**

An introduction to statistics as applied to business problems. The course is designed to develop students' ability to apply inferential statistical methods

to decision making in business. *Prerequisites: All business foundation courses or equivalent.*

**MGT 6670 Seminar in International Management (3)**

A survey of theories and issues related to managing the internationalization of business firms and multinational management. *Prerequisites: All business foundation courses or equivalent.*

**MGT 6671 Organizational Behavior (3)**

The study of theories and concepts of individual and group behavior within organizations. The course examines important behavioral processes, including learning, perception, attitudinal structuring, values, motivation, communication, conflict, and social reinforcement. Emphasis is placed on the relationship of these processes to individual and group performance and their implications for managerial decision-making. *Prerequisites: All business foundation courses or equivalent.*

**MGT 6673 Operations Management (3)**

An analysis of the conditions under which production and management of goods and services take place in business organizations with attention to the delineation of roles played by management and labor in carrying out both production and service delivery, and application of selected quantitative techniques to support those processes. *Prerequisites: All business foundation courses or equivalent.*

**MGT 6674 Ethics in Business (3)**

Examination of ethical problems and conflicts encountered by managers attempting to fit their organizations to the larger social environment. Addresses ethics, codes of ethics, social responsibility of organizations in domestic and global environments. *Prerequisites: All business foundation courses or equivalent.*

**MGT 6675 Theory of Organizations (3)**

The study of general business management from a structural standpoint: planning, organizing, staffing, directing, and controlling. *Prerequisites: All business foundation courses or equivalent.*

**MGT 6677 Systems Management (3)**

The study, design, implementation and operation of a system within the organization. *Prerequisites: All business foundation courses or equivalent.*

**MGT 6681 Organization Development and Change (3)**

A study of management concepts and practices useful in improving organizational performance. Theories and concepts applicable to making organizations more hospitable to people and more productive in accomplishing their goals and objectives are identified and discussed. Special attention is paid to strategic interventions and change in both private and public sector organizations and in the global arena. *Prerequisite: MGT 6671*

**MGT 6682 Leadership and Motivation (3)**

The course examines the foundational concepts of leadership, reviews traditional theories of leadership,

and investigates critical issues in leadership and motivation as they apply in the contemporary workplace. Applications develop critical thinking skills about the concepts. *Prerequisites: All business foundation courses or equivalent.*

**MGT 6685 Management Strategy (3)**

Study of the integrative functions of senior management in long-range strategic planning and decision making to support implementation. This is a capstone course which utilizes all the skills and knowledge developed earlier in the program. It focuses on policy problems and planning beyond the boundaries of the firm. It emphasizes advanced case analysis and computer simulation. *The course may not be transferred into the MSM program. Students are required to complete the graduate Educational Testing Service Major Field Test and a Capstone Examination in this course. A grade of "B" or better is required. Prerequisites: Must have completed 18 semester hours to include BUS 6610 (with a grade of "B" or higher), and MGT 6600, MGT6627, MGT 6671, and FIN 6631 (all with a grade of "C" or higher) and one other 3 SH course in either the concentration or an elective with a grade of "C" or higher.*

**MGT 6689 Management Internship (3)**

Independent study of a practical problem or project, pertinent to a management concentration, taken in a field setting. A formal written paper or report on the problem or project will be submitted according to the guidelines set forth by the instructor. A verbal presentation and/or oral examination covering problem or project research and findings/results is required. *No more than one internship may be used as the MSM "select one" elective. The course may not be substituted for a required course. Prerequisites: All business foundation courses or equivalent.*

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**MARKETING**

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**MKT 6661 Strategic Marketing Management (3)**

Application of marketing concepts, principles and procedures for planning, development, implementation and control of marketing programs in profit and non-profit organizations. Emphasis is on the matching of organization resource and strength with global marketing opportunities, and strategies to overcome environmental threats. *Prerequisites: All business foundation courses or equivalent.*

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**MASTER OF SCIENCE IN MANAGEMENT**

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**MSM 6605 Business Theories and Concepts (3)**

The study of foundational business and economic theories, concepts, principles, and practices in private, public, and not-for-profit organizations. Students examine business and economic theories and concepts essential for effective leadership application and practice. *This course is required for MSM students and must be completed with a grade of "B" or better in the first term of the program. Prerequisite: Admission into the MSM degree program.*

**MSM 6610 Theories of Organizational Behavior (3)**

This course is the study of the theories and concepts of individual leaders and group behaviors within organizations. The course examines important behavioral processes, including learning, perception, attitudinal structuring, values, motivation, communication, conflict, quality, and social reinforcement. Emphasis is placed on the relationship of these processes to individual and group performance and their implications for leadership and decision-making. *Prerequisite: Admission into the MSM degree program. A grade of "B" or better is required.*

**MSM 6615 Leadership and HRM Practice (3)**

This course addresses best practices, driving principles, and tactical concerns of human-resource management from the perspective of the hiring manager. The course reviews the functional areas of employment law, employee relations, staffing, compensation, performance management, training, strategy, and technology, to enable leaders to partner effectively with the HR staff in managing employees, crafting strategy, and demonstrating HR policy effectiveness. *Prerequisite: Admission into the MSM degree program.*

**MSM 6620 Ethical Leadership and Decision Making (3)**

Examination of ethical problems and conflicts encountered by leaders attempting to fit their organizational responsibilities to the larger social environment. Addresses ethics, codes of ethics, and social responsibility of organizations in domestic and global environments. *Prerequisite: Admission into the MSM degree program.*

**MSM 6630 Management Information Systems for Leaders (3)**

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. *Prerequisite: Admission into the MSM degree program.*

**MSM 6635 Leadership of Innovation and Change (3)**

The study of management concepts and practices useful in improving organizational performance. Theories and concepts applicable to making organizations more hospitable to people and more productive in accomplishing their goals and objectives are identified and discussed. Special attention is paid to strategic interventions and change in both private and public sector organizations and in the global arena. *Prerequisite: Admission into the MSM degree program.*

**MSM 6640 Foundations of Leadership and Motivation (3)**

The course examines the foundational concepts of leadership, reviews traditional theories of leadership, and investigates critical issues in leadership and motivation as they apply in the contemporary workplace. Applications develop critical thinking skills about the concepts. *Prerequisite: Admission into the MSM degree program.*

**MSM 6645 Total Quality Management in Organizations (3)**

Analysis of Total Quality Management (TQM) and

the driving philosophy, including leadership, human resource management and human resource development, strategic planning, implementation, methods, benchmarking, results, and the principles of closing the loop. Case analyses used to illustrate TQM as a systemic approach to organizational effectiveness using the Baldrige Criteria. *MSM core requirement; potential MBA unspecified elective; potential MSHRM elective. Prerequisite: MSM 6610.*

**MSM 6650 Leadership Roles in Strategic Management (3)**

Study of the integrative functions of senior management in long-range strategic planning and decision making to support implementation. This is a capstone course which utilizes all the skills and knowledge developed earlier in the program. It focuses on policy problems and planning beyond the boundaries of the firm. It emphasizes advanced case analysis and computer simulation. *Prerequisite: Admission into the MSM degree program and successful completion of at least 18 semester hours with a grade of "C" or better in core and concentration courses, not to include guided research or independent study courses. A grade of "B" or better is required.*

**MSM 6655 Advanced Leadership (3)**

The leadership concentration capstone course provides an in-depth examination of leadership theory and practical applications. Aspects of leadership are examined relative to change management, implementation, and communication, with an emphasis on ethical behavior, team and global leadership, team development, the learning organization, role modeling, and employee development. Analysis of cases and workplace situations focus on integrating theory and application. *Prerequisite: Admission into the MSM degree program, MSM 6610, MSM 6640. A grade of "B" or better is required.*

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**MATHEMATICS**

**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, continuity, sequences, differentiation, and the Riemann integral.
- MTH 5525 Real Analysis II (3)**  
A study of sequences and series of functions, series, and a continuation of the integral to include the Fundamental Theorem of Calculus. *Prerequisite: MTH 4424 or MTH 5524.*
- MTH 5526 Complex Analysis (3)**  
A study of complex numbers, elementary functions and their mappings, complex limits and power series, analytic functions, integrals, contour integral, and Cauchy integral formula.
- MTH 5536 Number Theory (3)**  
This course covers divisibility, congruences, prime numbers, Fermat's theorem, Diophantine equations, number theoretic functions, quadratic reciprocity.
- MTH 5541 Abstract Algebra I (3)**  
A study of properties of the integers, modular arithmetic. Elementary theory of groups, finite groups, subgroups, cyclic groups, permutation groups. Group isomorphisms and homomorphisms.
- MTH 5542 Abstract Algebra II (3)**  
This course covers the elementary theory of rings, polynomial rings, divisibility, unique factorization domains. Integral domains, ideals, factor rings, divisibility in integral domains. Elementary theory of fields. Extension fields. *Prerequisite: MTH 4441 or MTH 5541.*
- MTH 5551 Mathematical Statistics I (3)**  
A study of probability theory, sample spaces, random variables, mutual exclusion, independence, conditional probability, permutations and combinations, common discrete and continuous distributions, expected value, mean, variance, multivariate distributions, covariance, Central Limit Theorem.
- MTH 5552 Mathematical Statistics II (3)**  
A study of the fundamentals of the theory of statistics, the Central Limit Theorem, point estimation, sufficiency, consistency, hypothesis testing, sampling distributions, confidence intervals, linear regression models, interpretation of experimental results, Bayesian Estimation. *Prerequisite: MTH 4451 or MTH 5551.*
- MTH 5560 Topology (3)**  
An introduction to metric and topological spaces and associated topics, separation axioms, compactness, and connectedness.
- MTH 6600 Modern Topics in Mathematics (3)**  
An investigation of current topics in mathematics that are generally not covered in regularly offered graduate courses in the mathematics graduate curriculum. *Prerequisites will be determined by the topic under investigation.*
- MTH 6601 Metric Education for Elementary Teachers (3)**  
A study of the materials and methods program of instruction with workshops in selected school systems. *Prerequisite: Admission by permission of instructor.*
- MTH 6610 History of Mathematics (3)**  
The course is designed to acquaint the secondary mathematics teacher with the historical development of mathematics with particular attention given to the techniques of 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 Specialized Study in Area of Mathematics (3)**  
**6626**  
**6627**  
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 Sciences. *Note: Total credit for any combination of enrollments in these courses may not exceed six semester hours. See semester hour limits listed under Course Restrictions in General Regulations section.*
- MTH 6632 Non-Euclidean Geometry (3)**  
A study of non-Euclidean geometries with emphasis given to their logical development.
- MTH 6633 Advanced Linear Algebra (3)**  
A study of linear and orthogonal transformations, orthogonal and unitary matrices, numerical linear algebra, and applications. Spectral theory and duality. *Prerequisite: MTH 3331 or permission of instructor*

**MTH 6640 Advanced Concepts of Analysis (3)**  
A study from the classical theory of point sets in Euclidean space and the theory of functions of one or more real variables to topology, continuous functions, and Lebesgue integral and the Henstock integral. *Prerequisites: MTH 4425 or MTH 5525*

**MTH 6650 Trends in Technology and Problem Solving in Secondary Mathematics Instruction (3)**  
A comprehensive study of contemporary teaching strategies that incorporate current technologies and effective problem solving approaches for use by the mathematics educator in the modern secondary school mathematics program. Emphasis will be placed upon the effective use of calculators, writing, and computer software in the mathematics curriculum.

**MTH 6691 Research in Education (3)**  
A study of a variety of research and evaluations methods in the teaching of mathematics. *A grade of "B" or better is required.*

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### MUSIC

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*NOTE: Graduate students may not enroll in a 5500-numbered course if it duplicates the same course listed on an undergraduate transcript.*

**MUS 5500 Selected Topics (1-3 )**  
**5501** A detailed investigation of a specialized topic of interest and importance. The area of investigation should be a topic not covered in regularly offered courses in the School of Music or an advanced section for intensive study. See semester hour limits listed under Course Restrictions in General Regulations section.

**MUS Private Instruction in Performance (1)**  
Individual studies in performance are a vital part of any music curriculum. The graduate student in music education or conducting should, upon consultation with his/her adviser, elect to study in the areas most consistent with his/her personal needs and career goals. For the secondary school teacher, this may involve deeper exploration of instruments he/she does not play well. For the prospective junior college or college teacher, it will involve further study of his/her principal performing area. Graduate study in performance is through private instruction only.

**5510 Violin**  
**5511 Viola**  
**5512 Cello**  
**5513 String Bass**  
**5514 Piano**  
**5515 Organ**  
**5516 Voice**  
**5517 Clarinet**  
**5518 Oboe**  
**5519 Flute**  
**5520 Bassoon**  
**5521 Saxophone**  
**5522 Trumpet**  
**5523 Horn**  
**5524 Trombone**  
**5525 Euphonium**  
**5526 Tuba**  
**5527 Percussion**  
**5528 Guitar**

**MUS 5543 History of the Band in the United States (3)**  
The history of the band in this country from the early military bands through town, industrial, church, professional, circus, fraternal, school, and college bands.

**MUS 5553 Techniques and Literature of Brass Instruments (3)**  
A study of the techniques of all the brass instruments, the use of extant methods and literature for developing these techniques, and their applicability in individual and group public school teaching situations.

**MUS 5554 Literature and Techniques of Sacred Music (3)**  
A comprehensive survey of materials and methods for use in sacred choral music programs.

**MUS 5562 Arranging for Band and Chorus (3)**  
This course covers arranging for football shows, concert work, special vocal and instrumental groups. Study of ranges, voicing, and balance. Short-cuts and techniques in reproducing parts.

**MUS 5571 Music for ECE and Elementary School (3)**  
A study of the materials and planning techniques for music in grades P-6. Singing, listening, movement, instrument playing, and creative activities will be explored. Multicultural elements, observation, teaching experiences, and practical application of ideas will be included.

**MUS 5582 Choral Techniques (3)**  
This course focuses on organizational and rehearsal procedures, choral tone, diction, and choral literature.

**MUS 5584 Band Techniques (3)**  
A study of rehearsal techniques, band pageantry, jazz band, instrument repair and music literature for band.

**MUS 6600 Instrumental Seminar (1)**  
This course covers rehearsal, evaluation and performance of band literature. Two semesters required of all instrumental music majors.

**MUS 6601 Choral Performance Seminar (1)**  
A study of the rehearsal, evaluation and performance of choral literature. Two semesters required of all choral music majors.

**MUS 6605 Advanced Music Technologies (3)**  
An advanced study of the applications of microcomputers for the music educator in the modern school music program.

**MUS 6606 The Repertoire of the Band (3)**  
An intensive study of music for the band, including an historical overview and intensive score study of representative works.

**MUS 6607 Literature and Techniques for the Beginning Band (3)**  
A selective survey of materials for beginning instrumental music programs. Techniques will be presented for recruiting and retaining students. Performance, listening, and analysis will be included.

**MUS 6608 Literature and Techniques for Volunteer School and Community Choruses (3)**  
A study of music and methods for working with

school, church, and community choral groups. Emphasis on materials suitable for performers with little previous training or experience.

**MUS 6609 Choral Literature (3)**

A comprehensive survey of music for the choral medium.

**MUS 6610 Woodwind Instruments and Their Literature (3)**

A study of teaching techniques and materials for the bassoon, clarinet, flute, oboe, and saxophone.

**MUS 6611 Materials and Techniques for the Intermediate Band (3)**

A comprehensive survey of the literature for the intermediate band program. Criteria for selecting and evaluating methods will be developed and new approaches to instruction presented.

**MUS 6612 Techniques for Modern School Band (3)**

An intensive study of the administration, materials, organization, and teaching techniques of school instrumental music programs.

**MUS 6613 Strategies for Performance Preparation (3)**

The investigation and diagnosis of the five elements that constitute an outstanding musical performance: tone, intonation, rhythm, technique, and interpretation. Emphasis will be placed upon teaching and achieving the style, phrasing, balance, dynamics, nuance,agogics, note leading, and interpretative articulation.

**MUS 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 Specialized Study in Area of Music (1-3)**

6626 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 IDEA) to assure that all students are educated in the least restrictive environment. *Prerequisite: MUS 4460, SPE 3340 or SPE 6640*

**MUS 6631 Advanced Conducting I (3)**

A study and conducting of a sequence of music which provides opportunities for appropriate skill development. Students will be evaluated and assigned materials suitable for their area of specialization. Choral students will work individually with the Director of Choral Activities, and instrumental students will work individually with the Director of Bands in addition to regular class lectures.

**MUS 6632 Advanced Conducting II (3)**

Selection, study, and conducting of specific repertoire in preparation for an individual conducting recital (MUS 6633). Individualized study and research of a coherent group of compositions appropriate for a performance. Choral students will work individually with the Director of Choral Activities, and instrumental students will work individually with the Director of Bands in addition to regular class lectures.

**MUS 6633 Conducting Recital (1)**

Graduate students in conducting, upon completing MUS 6631 and 6632, with the approval of their adviser and conducting mentor, will present and conduct a 30-minute recital with an appropriate vocal or instrumental ensemble. The performance will be videotaped for post-recital evaluation and final approval by the graduate conducting faculty.

**MUS 6635 Pedagogy of Music History, Theory and Musicianship (3)**

A study relating musical historical and theoretical concepts to the secondary school performance and general music class. Consideration of separate music theory and appreciation classes as secondary level subjects. Study of the concept of comprehensive musicianship as a point of departure for the modern music education curriculum.

**MUS 6636 Conducting and Score Analysis Techniques (3)**

A concentrated study of conducting patterns, gestures, and techniques. Score study through the coordinated application of music theory and history. Special emphasis will be placed on interpretation and the development of aural analysis skills.

**MUS 6637 The Heritage of the March (3)**

A historical and analytical survey of marches for the concert band. Marches for groups of all ability levels

will be presented and discussed. Performance, listening and historical background will be included.

**MUS 6650 Band Adjudication (3)**

An intensive study of concert, marching, jazz band, and solo-ensemble adjudication and the requirements leading to certification.

**MUS 6653 Measurement and Evaluation of Musical Experiences (3)**

This course is designed to provide graduate students with tools and techniques to accurately evaluate and measure music students' 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. *A grade of "B" or better is required.*

**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. *Grading system is Pass/Fail.*

**MUS 6696 Practicum (1-3 credit hours)**

Supervised experiences related to instruction in music education. Application of skills, concepts and principles acquired in previous courses will be emphasized.

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**NURSING**

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*[Course credit hours/contact hours (if different) per week are noted in parentheses]*

**NSG 6604 Theories in Nursing (2)**

Explores the evolution and importance of knowledge and theory in nursing, mechanisms for developing and critiquing theory, and the analysis and application of theories in nursing practice.

**NSG 6605 Healthcare Economics (2)**

An introductory course in health economics, designed to provide the student with the elements of economic analysis as applied to the area of healthcare and healthcare policy.

**NSG 6606 Curriculum Development in Nursing Education (3)**

Provides content and learning experiences that enable students to understand all phases of the curriculum development process. Explores principles of curriculum development and major historical influences on nursing curricula. Includes in-depth analysis of the basic components and determinants of curriculum development as well as the concepts of balance, continuity, and sequence.

**NSG 6610 Power, Politics, and Policy Formulation in Nursing (3)**

Analysis of the relationship of power, politics, and policy formulation to nursing and healthcare.

**NSG 6612 Advanced Health Assessment (3)**

Designed to prepare an expert clinician in health assessment of patients across the lifespan. Advanced content in history and interviewing processes, physical examination, and documentation of assessment findings are included. The clinical diagnostic process is emphasized. *Co-requisite: NSG 6613 (FNP) or NSG 6618 (CNS).*

**NSG 6613 Advanced Health Assessment Preceptorship (3/9)**

Preceptorship course designed for clinical application of skills in advanced health assessment, clinical diagnosis and management, and maintenance of health promotion/disease prevention in the role of the primary care family nurse practitioner. *Prerequisites: NSG 6671 and 6649 Co-requisite: NSG 6612.*

**NSG 6614 Role of the Nurse Educator (2)**

Provides a forum for the analysis and synthesis of role behaviors specific to the nurse educator. Emphasis is on the role of the nurse educator, patterns of nursing education, nursing curricula, instructional design, and professional, social, and political issues influencing nursing education. *Prerequisite for MSN students: NSG 6604, 6660, 6691, 6692 and clinical specialty courses. Prerequisite for DNP students: NSG 6604, 6691, and clinical specialty courses. Co-requisite: NSG 6615.*

**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 in nursing education. Involves supervised experience in the role of the nurse educator. *Prerequisite for MSN students: NSG 6604, 6660, 6691, 6692 and clinical specialty courses. Prerequisite for DNP students: NSG 6604, 6691, and clinical specialty courses. Co-requisite: NSG 6614.*

**NSG 6616 Role of the Nursing Administrator (2)**

Assists students to evaluate the role of the nurse administrator. Explores principles of ethical and critical decision-making, quality improvement, and communication for management and resolution of issues and conflicts within the functional role. Examines use of research, evidence, and outcome data for informed decision-making and consideration of factors that influence policy making within the nursing organization. *Prerequisite for MSN students: NSG 6604, 6660, 6691, 6692 and clinical specialty courses. Prerequisite for DNP students: NSG 6604, 6691, and clinical specialty courses. Co-requisite: NSG 6617.*

- NSG 6617 Nursing Administration Internship (3/12)**  
Provides opportunities to apply management theories basic to nursing, administration. Includes supervised experiences in role of nurse administrator. *Prerequisite for MSN students: NSG 6604, 6660, 6691, 6692 and CNS clinical specialty courses. Prerequisite for DNP students: NSG 6604, 6691, and CNS clinical specialty courses. Co-requisite: NSG 6616.*
- NSG 6618 CNS Advanced Health Assessment Practicum (1/2)**  
Clinical laboratory course designed to review and expand skills and expertise in health assessment. Successful completion requires validation of knowledge and skills needed to perform complete health assessment of individuals. *Co-requisite: NSG 6612.*
- NSG 6620 Advanced Acute Care Nursing of Adults (2)**  
Focuses on the adult health nursing specialist's role in the acute care setting. Emphasizes theories, concepts, issues, and trends relative to nursing care of the adult in acute care settings. *Prerequisites: 6612, 6618, 6671. Co-requisite: NSG 6621.*
- NSG 6621 Advanced Acute Care Nursing Preceptorship (3/9)**  
Clinical preceptorship in adult health nursing in acute care. *Co-requisite: NSG 6620.*
- NSG 6622 Advanced Long-Term Nursing Care of Adults (2)**  
Focuses on the nursing specialist's role in long-term care. Emphasizes theories, concepts, issues, and trends relative to nursing care of the adult with long-term healthcare needs. *Prerequisites: NSG 6620, 6621. Co-requisite: NSG 6623, 6649.*
- NSG 6623 Advanced Long-term Nursing Care of Adults Preceptorship (3/9)**  
Clinical preceptorship in adult health nursing in long-term care. *Prerequisites: NSG 6620, 6621. Co-requisites: NSG 6622 and 6649.*
- NSG 6625 Specialized Study in Advanced Nursing (1/4)**  
**6626**  
**6627**  
Under supervision of a faculty member, student may pursue study in selected area applicable to the practice of nursing which fits his/her academic needs but is not available in the regular curriculum. *Total credit for any combination of enrollments in these courses may not exceed four semester hours. F, Sp, Su See semester hour limits listed under Course Restrictions in General Regulations section.*
- NSG 6631 Concepts of Health Care Informatics (3)**  
An examination of concepts and technologies in the context of the healthcare delivery environment. Issues and applications addressed include hardware and software basics, data management, the Internet eCommunication, and security.
- NSG 6632 Theoretical Foundations of Nursing Informatics (2)**  
Explores the foundations of nursing informatics, related theories and sciences. Identifies nursing and healthcare data sets, classification systems, and nomenclatures utilized in practice. *Co-requisite or Prerequisite: NSG 6604.*
- NSG 6633 Health Care Information Systems (3)**  
Explores the planning, analysis, design, implementation, and evaluation of clinical information systems. Includes strategies for developing a strategic plan and issues in project management along with major design and implementation issues. Various methods for the evaluation of outcomes of clinical information systems are critiqued. *Prerequisites: NSG 6631, 6632.*
- NSG 6634 Role of the Nursing Informatics Specialist(2)**  
Focuses on the nursing informatics specialist's role in the healthcare environment. Emphasizes concepts, research, issues, and trends relative to the practice of the nursing informatics specialist. *Prerequisites: Completion of nursing specialty courses for Nursing Informatics Specialist. Co-requisite: NSG 6636.*
- NSG 6635 Informatics Applications (3)**  
Integrates informatics concepts and tools in the healthcare environment. Addresses regulatory, security, electronic communication, ergonomics, electronic health records, clinical decisions support systems, human-computer interactions, and emerging technologies. *Prerequisite: NSG 6633.*
- NSG 6636 Nursing Informatics Internship (4/16)**  
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. *Prerequisites: Completion of nursing specialty courses for Nursing Informatics Specialist. Co-requisite: NSG 6634.*
- NSG 6645 Family and Cultural Theories in Advanced Nursing Practice (3)**  
Provides the student with in-depth knowledge of family and cultural assessment. Further analysis of diverse cultures and multi family structures enhance the student's application of family and/or cultural theories and advanced nursing interventions.
- NSG 6649 Advanced Pharmacology (3)**  
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 and use of technology in management of drug therapy.
- NSG 6655 Synthesis and Evaluation of Advanced Nursing Practice (1)**  
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. *Grading system is Pass/Fail. Prerequisites: NSG 5505, 6604, 6660, 6691, 6692 and clinical specialty courses.*
- NSG 6659 Adaptation to FNP Role (1)**  
Presents the conceptual and theoretical base of the advanced practice role of the family nurse practitioner. *For the post-master's FNP certificate student.*

- NSG 6660 Foundations of Advanced Practice (2)**  
Focuses on the advance practice nurse's role in healthcare. Emphasizes the theoretical bases critical to leadership in the advanced practice role.
- NSG 6665 Primary Care I (3)**  
Focuses on advanced knowledge and theory base in the assessment and care of children and women of child-bearing age. Health promotion is emphasized, but the practitioner is also prepared to deliver complex multifaceted care to clients in home, acute, and rehabilitative settings. *Prerequisites: NSG 6612 and 6613. Co-requisite: NSG 6666.*
- NSG 6666 Primary Care I Preceptorship (3/9)**  
Clinical course in the advanced practice role of the family nurse practitioner with pediatric clients and women of childbearing age in primary care settings. *Prerequisites: NSG 6612, 6613. Co-requisite: NSG 6665.*
- NSG 6667 Primary Care II (3)**  
Focuses on advanced knowledge and theory base in the assessment and management of care of adult and gerontologic clients in primary care settings. *Prerequisites for MSN students: NSG 6604, 6660, 6665, 6666, 6691, 6692. Co-requisites: NSG 6668. Prerequisites for DNP students: NSG 6604, 6665, 6666, 6691. Co-requisites: NSG 6668.*
- NSG 6668 Primary Care II Preceptorship (3/9)**  
Clinical preceptorship course in the advanced practice role of the family nurse practitioner with adult and gerontological patients in the primary care settings. *Prerequisites: NSG 6665, 6666. Co-requisite: NSG 6667.*
- NSG 6670 Role Synthesis Seminar (1)**  
Provides a forum for the analysis and synthesis of role behaviors specific to the family nurse practitioner. Emphasis is on the role, patterns of health promotion, primary care, and professional, social, and political issues related to the role. *Prerequisites: All core nursing specialty courses. MSN students only: Co-requisite: NSG 6680.*
- 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.
- NSG 6680 Family Nurse Practitioner Internship (5/20)**  
Internship course designed to provide extensive clinical experience with a broad spectrum of patients to allow students opportunities to strengthen clinical skills in specific areas. *Prerequisites: All core and FNP nursing specialty courses. Co-requisite: MSN students only: NSG 6670.*
- 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 and evidence-based practice relevant to advanced nursing. *A grade of "B" or better is required.*
- 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.*
- 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 or evidence-based practice. *Grading system is Pass/Fail. Prerequisites: NSG 6604, 6660, 6691, 6692.*
- NSG 6697 Scholarly Inquiry Practicum II (1/2)**  
Faculty-guided experience for implementation and evaluation of student's scholarly inquiry. *Grading system is Pass / Fail. Prerequisite: NSG 6696.*
- 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 (3)**  
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.*
- 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.*
- 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 8815, NSG 8820*

- NSG 8805 Principle 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 8802.*
- NSG 8810 DNP Residency I: Project Identification (1)**  
Orients and introduces the Residency Synthesis Project which focuses on the identification and initial development of the Residency Synthesis Project for improvement of nursing practice or patient outcomes within a specialized area of advanced practice. Requires the identification of feasible Residency Synthesis Project idea, synthesis of evidence-based literature, selection of a Residency Synthesis Project Chair and committee and initiation of an e-portfolio. Requires completion of a minimum of 60 clinical hours for the development of DNP role competencies. *Co-requisite: NSG 8812.*
- NSG 8812 Foundations of Evidence-Based Practice (3)**  
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. *Co-requisite: NSG 8810. Pre-or Co-requisite: NSG 8802. A grade of "B" or better is required.*
- NSG 8815 Evaluation Methods for Improvement of Clinical Outcomes (3)**  
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 (2)**  
Develops the methodology for an evidence-based Residency Synthesis Project with a systems-level impact for the improvement of nursing practice or patient outcomes within a specialized area of advanced practice. Explores the impact of ethical, safe and effective patient and organizational outcomes in the translation of evidence into practice. Culminates in the defense of the Residency Synthesis Project proposal, compliance with the regulations involving human subjects and approval from Troy University's Institutional Review Board. Requires completion of a minimum of 120 clinical hours for the development of DNP role competencies. *Pre-requisite: NSG 8810. Co-requisite: NSG 8815*
- NSG 8822 Leadership in Organizations and Systems (2)**  
Prepares students to lead and manage the 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, business planning, and evaluation of population-based efforts to provide affordable quality care. Prepares the student to utilize these concepts in articulating a vision encompassing evidence-based care. *Prerequisites: NSG 8802*
- NSG 8824 Bioethical Issues In Healthcare (2)**  
Focuses on the consistent themes in both bioethics and the laws related to bioethics. Includes: issues in morality, types of ethical theory, individual rights (freedoms), informed consent, patient-professional relations, right to privacy, professional ideals, and the four ethical principles of autonomy, non-maleficence, beneficence, and justice. Analyzes the leadership role of the DNP in the areas of preventative ethics and utilization of decision models for resolving ethical conflicts are analyzed. *Prerequisites: NSG 8805, NSG 8815, and NSG 8820.*
- NSG 8826 Diversity and Social Issues in Health Care Systems (2)**  
Explores health disparity and diversity as a result of economics, class structures, cultural background and social stigmas. Critically analyzes the impact of local, national, and international social issues on health care delivery. Examines prominent social issues for the development of appropriate clinical guidelines and policy for patients, groups, and organizations. Analyzes healthcare models for accuracy and appropriateness based on evidence of cultural health seeking behaviors of groups. *Prerequisites: NSG 8815, and NSG 8820.*
- NSG 8830 DNP Residency III: Project Implementation (2-4)**  
Focuses on implementation of an evidence-based Residency Synthesis Project with a systems-level impact for the improvement of nursing practice or patient outcomes within a specialized area of advanced practice. Requires integration of knowledge of nursing theory, evidence-based nursing practice, physiologic and pathophysiologic foundations, ethical and legal principles and healthcare systems. Involves development of datasets for analysis of Residency Synthesis Project outcomes. Requires completion of a minimum of 120 clinical hours and up to 240 clinical hours. *Prerequisite: NSG 8820.*
- NSG 8840 DNP Residency IV: Project Evaluation (3-5)**  
Emphasizes the evaluation, synthesis and critique of Residency Synthesis Project outcomes to support quality clinical or organizational practices. Requires

completion of a final paper to the Residency Advisory Committee and presentation to faculty and peers. Concludes with reflection and evaluation of achievement of DNP role competencies. Requires completion of a minimum of 180 clinical hours and up to 240 clinical hours. *Prerequisite: NSG 8830.*

**NSG 8850 DNP Residency Project Dissemination (3)**  
Emphasizes preparation and submission of a manuscript to a professional peer-reviewed journal for dissemination of the Residency Synthesis Project. Includes selection of best fit journals and conferences, review of manuscript submission process, and techniques (guidelines) for scholarly writing. Examines ethical issues related to publication and dissemination. *Co-requisite: NSG 8840.*

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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 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 6604 Workforce Planning and Staffing (3)**  
A study of theory, principles, and legal requirements for effective workforce planning, recruitment, selection, and employment in public and non-profit organizational settings. The course provides an in-depth analysis of tools, techniques and statistical concepts applied to the fundamental HR function of workforce planning and staffing. *Prerequisite: PA 6624.*

**PA 6605 Training and Development (3)**  
A study of concepts and practices critical to identifying human resources training and development needs critical to ensuring organizational effectiveness. *Prerequisite: PA 6624.*

**PA 6606 Issues in Managing the Public Workforce (3)**  
A study of concepts and practices to introduce the student to public sector employee performance management requirements, sound employee/labor relations practices, how compensation is determined and the various pay systems and benefits, special monetary incentives, and tangible and intangible awards to motivate, retain, and recognize employee performance of today's multi-generational workforce. *Prerequisite: PA 6624.*

**PA 6607 Performance Measurement and Management for Public and Non-profit Organizations (3)**  
This course focuses on how performance measurements are becoming increasingly important in public and non-profit settings. It will ground students in the fundamentals of performance measure-

ment systems and demonstrate how they are critical from a mission, strategic, funding, transparency and accountability perspective. It will cover not only how to select appropriate measures, but also how to implement a performance measurement system and use performance measures in managing an organization. In addition, the course will highlight the need for leadership and management acumen to ensure success in achieving meaningful, significant and lasting results.

**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 private organizations.

**PA 6622 Public Policy (3)**  
A 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, functions, and constitutional issues involved with managing public employees. Specific functions addressed include planning, job analysis, position classification, recruitment and selection, staffing, performance management and appraisal, labor-management relations, training, and other personnel functions.

**PA 6625 Specialized Study in Public Administration (3)**  
A 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 Director of the MPA Program must approve the topic. *PA 6625 may substitute for a required concentration course only once in a student's program and only if taken for three credit hours.*

**PA 6630 Strategic Planning (3)**  
A 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)**  
The study of the various theoretical perspectives that help to explain complex organizational behavior in public and nonprofit organizations in the global environment. *Prerequisite: PA 6601.*

- PA 6640 Intergovernmental Relations (3)**  
An examination of the administrative, fiscal, and legal issues that govern relations among the various governmental entities in the United States.
- PA 6643 Advanced Public Human Resource Management (3)**  
This course is designed to help the student understand the law as it applies to the management of human resources. Its coverage is aimed at preparing the managers of human resources to recognize legal problems, to know the legal impact of decisions of personnel matters and to be knowledgeable in general of the law as it might impact individuals in organizations. *Prerequisite: PA 6624.*
- PA 6644 Administrative Law (3)**  
An overview of the legal environment of public administration. The focus is on the powers and procedures of administrative agencies including administrative discretion, rule-making, investigations, prosecuting, negotiating and settlement based on Constitutional law, statutory law, common law, and agency-made law and the liability of governments and their officers.
- PA 6645 Managing Government Contracts (3)**  
An overview of the principles, legal aspects, processes, and strategies of contract management in public and nonprofit organizations.
- PA 6646 Organizational Behavior (3)**  
A study of the various theoretical perspectives that help to explain complex organizational behavior in public and nonprofit organizations in the global environment including motivation, diversity, group dynamics, communications, power, conflict, culture, and change.
- PA 6647 Advanced Contract Administration (3)**  
An examination of the current processes, procedures, standards, issues and problems in planning, managing, auditing, and evaluating contract performance. *Prerequisite: PA 6645.*
- PA 6648 Contract Negotiation (3)**  
This course focuses on management of the overall contract negotiation process and examines the basics of negotiation, including the procedures, processes, psychology, and skills. These contract negotiation processes are applied to the defense contracting framework. Perspectives of both government and commercial interests are explored.
- PA 6649 Government Contract Law (3)**  
This course focuses on legal aspects of government contracting. Procurement laws and federal acquisition regulations are examined to serve as a basis for development of case methods. The case methods are used in this course to emphasize legal procedures and logic. The course highlights the significance of the legal process for practicing public administrators.
- PA 6650 Governmental Budgeting & Financial Management (3)**  
A survey of concepts, principles, processes, and practices in governmental budgeting at national, state, and local levels and the interrelationships of planning, programming, and budgeting strategies.
- PA 6660 Readings in Public Administration (1-3)**  
A study of problem(s) in a public or non-profit organization using analytical methods with a public policy focus and producing a scholarly paper that contributes directly to the student's curriculum. *The Director of the MPA Program must approve the topic. PA 6660 may substitute for a concentration course only once in a student's program and only if taken for three credit hours.*
- PA 6665 Leadership in Public Administration (3)**  
A survey of leadership theories, styles, and strategies in the contemporary public and nonprofit workplace.
- PA 6666 Foundations of Nonprofit Organizations (3)**  
A survey of the history, theory, and political, organizational, legal, financial, personnel, and service contexts unique to nonprofit management.
- PA 6667 Executive Leadership in Nonprofit Organizations (3)**  
An examination of the managerial tools and professional practices for developing the internal and external capacity of nonprofits. Topics include working with boards, volunteers, and communities; developing partnerships with public, private and other nonprofit organizations; marketing the program; planning special events; and influencing policy directions through lobbying.
- PA 6668 Grant Management for Public and Nonprofit Organizations (3)**  
An overview of strategies and techniques integral to identifying potential funding resources and planning, developing, and writing grant proposals. Topics include program development and grant opportunities, the funding acquisition processes, stewardship of funds, and project management strategies including evaluation, dissemination, and continuation plans.
- PA 6674 Ethics in Public Administration (3)**  
A study of the philosophical and practical issues related to ethical decision making in the public sector. Emphasis is on the analysis of ethical problems and the development of analytical skills and values framework to act ethically in public service roles.
- PA 6675 Public Health Services Administration and Policy (3)**  
The course provides a framework for developing and analyzing a range of U.S. public health policy areas and issues; acquaints students with increased understanding of the context of public health administration and healthcare policy; and examines key factors and forces impacting total public health system performances in the United States.
- PA 6676 Legal and Social Issues in Public Health Administration (3)**  
An examination of the legal and ethical aspects of contemporary legal and social issues within the public health services administration process.

- PA 6677 Public Health Preparedness & Emergency Response (3)**  
The course provides an overview of public health's involvement and response strategies to various natural and unnatural emergencies and the domestic and international responses to disasters, outbreaks, and epidemics.
- PA 6678 Introduction to Public Health (3)**  
An introduction to the mission, roles, issues, and context of public health, community health, and health systems, including the history and mission of public health as well as a comprehensive exploration of the essential services and core functions of public health, social justice, and human rights. *Prerequisite: PA 6624.*
- PA 6679 E-Governance (3)**  
The course studies concepts and methods of e-Government strategies to include planning, implementing, and evaluating information technology used to deliver government services. Topics include e-Government strategy, the use of Web 3.0 and social media, policy concerns, and how to assess the performance and function of e-Government applications and strategies.
- PA 6694 Internship (3)**  
A practical learning experience in a public or non-profit organization that includes a written paper analyzing a problem pertinent to the student's concentration. The Internship cannot be used to satisfy an elective or core course requirement. *Grade is Pass/Fail.*
- 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. Students should retain core course textbooks for use in PA 6699.*
- PHY 5520 Mechanics (3)**  
A study of the kinematics and dynamics of particles and systems of particles.
- PHY 5530 Electromagnetic Fields (3)**  
A study of vector fields, dielectric and magnetic media, fields in conductors, electric and magnetic circuit elements. Maxwell's equations and boundary condition problems in one, two and three dimensions.
- PHY 5591 Guided Independent Research (1)**  
A laboratory based physics research project under the direction of a faculty member. The project must culminate in a written report with the results presented at a department seminar.
- PHY 5593 Guided Independent Study (3)**  
An independent study for advanced students under the direction of a faculty member.
- PHY 6600 Advanced General Physics (3)**  
This course explores the scientific view of the world as it has developed from the earliest theories of Aristotle, Euclid and Newton to modern theories such as Einstein's relativity and quantum mechanics. *Prerequisite: Eleven hours of college physics or permission of instructor.*
- PHY 6625 Specialized Study in Area of Physics (1-3)**  
**6626**  
**6627** A study of a problem or problems using research techniques. Selection of a 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 an 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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**POLITICAL SCIENCE**

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**NOTE:** Courses from disciplines other than Public Administration (CJ and IR) used as PA concentration selections are described in the Catalog 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 5511 Advanced Modern Physics (3)**  
Foundations of statistical physics, solid state physics, nuclear physics, elementary particles, astrophysics, and cosmology. *Prerequisite: PHY 5510*
- POL 5520 The Vietnam War (3)**  
Study of the period 1946 to 1975 in Indochina with emphasis on American involvement during and after the French colonial period, escalating involvement of the Kennedy and Johnson administration, and Vietnamization and withdrawal under President Nixon.
- POL 5523 U.S. Diplomatic History (3)**  
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.
- POL 5524 Contemporary American Foreign Policy (3)**  
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.
- POL 5533 Comparative Government (3)**  
Comparative analysis of major world power governments with emphasis upon comprehension of differences which lead to international tensions.

- POL 5551 International Relations (3)**  
Analysis of contemporary world politics, including structures and processes through which states interact, power politics, geopolitics, regional alliances, and psychological warfare.
- POL 6625 Specialized Study in Area of Political Science (1-4)**  
**6626** 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.*
- POL 6665 Reading in International Relations (3)**  
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.*
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- POST SECONDARY EDUCATION**
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- PSE 6660 Trends and Issues in Adult Education (3)**  
This course focuses on current trends in adult education. It includes a comprehensive investigation of current issues in adult 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 Project in Post Secondary Education (3)**  
This course helps students make connections between theoretical knowledge and practical situations. The content of this course is variable, depending on the individual student's interests, present situation, and future plans. The determination of the content for each student will be made through collaboration between the student, the student's adviser, and the instructor of the course. Students may focus on supervised teaching, action research, or a project with a major field agency. *Prerequisites: This course is open only to students enrolled in the Masters of Science in Post Secondary Education program who have completed 18 hours of coursework including the research class.*
- PSE 6670 Psychological Foundations of the Adult Learner(3)**  
An in-depth study of research findings and psychological concepts related to the nature of adult learners and learning processes; principles of motivation, effective instructional design geared toward adult learners; and social and cultural influences on adult learning. Emphasis will be given to the understanding of critical and variable attributes of adult learners.
- PSE 6680 Curriculum Development for Adult Education (3)**  
A study of concepts, learning theories, materials, and media related to curriculum and program development in adult education.
- PSE 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.*
- PSE 6695 Thesis (3-6)**  
The thesis must be related to both the students' concentration area and post secondary education. Information regarding thesis guidelines and requirements may be obtained from the Graduate School office. *Grading system is Pass/Fail.*
- PSE 6699 Capstone in Post Secondary Education (3)**  
This course is a culminating experience that helps students integrate and apply the knowledge they have gained through their previous coursework. Emphasis is placed on challenging students to view the post secondary educational process from many perspectives. Students complete field experiences appropriate to their concentration areas and analyze case studies drawn from real-life situations. Students also create a personal philosophy of post secondary instruction. *Prerequisites: This course is open only to students enrolled in the Master of Science in Post Secondary Education program. Students may take this class only during their last two semesters of coursework.*
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- PSYCHOLOGY**
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- PSY 5501 Psychological Tests and Measurements (3)**  
The selection, evaluation, administration, scoring, interpretation and use of tests of intelligence, proficiency, interests, personality, aptitude and social adjustment.
- PSY 5556 Gerontology (3)**  
The study of aging. Emphasis on biomedical, psychological, and social aspects of middle and late adulthood.
- PSY 5559 Applied Behavior Analysis (3)**  
Training and experience in design, execution, and evaluation of behavior modification programs for professionals in fields of counseling, education, rehabilitation and psychology. Provides study of key concepts of classical and operant conditioning, as well as discussion and application of specific strategies building on conditioning principles.
- 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 & 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 Specialized Study in Psychology (1-3)**  
**6626** 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.*  
**6627**
- PSY 6631 Psychological Foundations of Education (3)**  
An overview of educational psychology, including research findings and philosophical concepts related to nature of learner and learning process; principles of motivation and educational evaluation; and educational concepts representing different schools of psychological theory. *(Must make a "B" to apply toward any teacher certification program).*
- PSY 6633 Advanced Psychology of Learning (3)**  
A study of the historical roots and contemporary principles and theories of human learning and their applications to educational practices. Emphasis of this course is on contemporary perspectives and developments; field and cultural influences on learning; and the relation of individual and group adjustment to school learning.
- PSY 6635 Vocational Psychology and Career Development (3)**  
This course covers the procedures used in obtaining, organizing, integrating, and utilizing educational and occupational information including electronic media. Career development theories, scope of the world of work, decision making strategies and counseling for career development including information on the relationship between career choice and life style. Attention is given to the appraisal of interest, aptitude and personality measurements.
- PSY 6636 Wechsler Scales (3)**  
An exploration of the theory, nature, and measurement of human intelligence. Techniques of administering the Wechsler scales are taught include but are not limited to the following: WAIS-III, WISC-III, WPPSI-R, WIAT, and WMS. The student administers, scores, and interprets test batteries and writes satisfactory reports. *Prerequisites: PSY 6645 and adviser approval.*
- PSY 6637 Stanford Binet and Others (3)**  
This course requires the administration, scoring, interpretation and reporting of psycho-educational batteries, including Binet IV, Woodcock Johnson, PIAT, and Kaufman. This course will include measures of intelligence, academic achievement, adaptive behavior, behavior rating, and perceptual-motor skills. The primary focus will be upon those instruments commonly used in schools excluding the Wechsler scales. *Prerequisites: PSY 6645, PSY 6636, and adviser approval.*
- PSY 6638 Philosophy of Cognitive Development (3)**  
An investigation of educational philosophies and human development as they relate to cognitive development and teaching of thinking skills.
- PSY 6644 Bio-Psychology (3)**  
A study of the physiological correlates of behavior focusing on the cells of the nervous system, the structure and functions of the nervous system, psychopharmacology, drug abuse, and research techniques.
- 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. *Prerequisite: CP/EDU 6691 (with a grade of B or better), 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 supervision will be provided by a licensed psychologist. *Grading system is Pass/Fail.*
- PSY 6659 Cognitive and Behavioral Interventions (3)**  
This is a study of the basic principles and techniques of cognitive and behavioral systems of intervention.

- Applications of these techniques are applied to the problems of children and adults in school, home, and clinic settings are presented.
- PSY 6662 Internship: Psychometry (3)**  
This course includes at least 300 hours of prescribed experiences in school psychometry, completed at approved schools (K-12), and supervised by an approved school psychometrist or school psychologist. *Grading system is Pass/Fail. Prerequisites: PSY 6650 and approval of instructor*
- PSY 6664 Assessment of Disabling Conditions (3)**  
This course covers client assessment in the rehabilitation process and knowledge and skills required by the counselor in order to provide quality services to the individual. *Prerequisite: PSY 6653 or permission of instructor.*
- PSY 6668 Human Lifespan and Development (3)**  
A study of the nature and needs of individuals at all developmental levels. Problems of human adjustment faced at all stages of development from conception through retirement, including adjustment issues in the home, school, work place, social groups, and retirement. An understanding of developmental crises in human behavior is also a goal of this course.
- PSY 6669 Behavior Pathology (3)**  
A study of psychopathological disorders with emphasis on the psychological, social, and biological origins. The current classification system used by the American Psychiatric Association is used as a foundation. Diagnosis and treatment planning are emphasized.
- PSY 6670 Diagnosis and Treatment Planning (3)**  
A course designed to assist mental health professionals in the understanding and application of a multi-axial system (current edition of the Diagnostic and Statistical Manual). Also included is a comprehensive treatment planning strategy for development statements of behavioral symptoms, short-term objective, long term goals and therapeutic interventions. Psychopharmacology treatment interventions are covered. *Prerequisite: PSY 6669.*
- PSY 6688 Medical/Psychosocial Aspects of Disability (3)**  
A study of medical and psychological information related to the disabled persons and to their families. Aspects of personal and social adjustment will be emphasized.
- PSY 6693 Psychological and Educational Statistics (3)**  
A study of variety of descriptive and inferential statistics commonly used in psychology and education. Emphasizes application of statistical methods to research design. *A grade of "B" or better is required. Prerequisite: ADE/CP/EDU 6691.*
- PSY 7700 Professional School Psychology (3)**  
This course provides a knowledge base specific to the professional practice of school 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.*
- PSY 7725 Specialized Study in Psychology (1-6)**  
**7726**  
**7727**  
Under supervision of faculty member selected by student and approved by adviser and faculty supervisor, student may pursue extensive study of particular area which fits his/her academic needs but is not available in regular curriculum. Department will establish guidelines for supervision and pursuance of study. *See semester hour limits listed under Course Restrictions in General Regulations section.*
- PSY 7753 Internship: School Psychology (3-6)**  
At least 300 hours per three-semester-hour course of prescribed experiences in school psychology, completed at approved schools (K-12), and supervised by an approved school psychologist. The student is advised to check national and multi-state requirements for internship experiences. *Prerequisites: PSY 6650 and approval of instructor.*
- PSY 7754 Internship: School Psychology (3)**  
At least 300 hours per three-semester-hour course of prescribed experiences in school psychology, completed at approved schools (K-12), and supervised by an approved school psychologist. The student is advised to check national and multi-state requirements for internship experiences. *Prerequisites: PSY 6650 and approval of instructor.*
- PSY 7755 Internship: School Psychology (3)**  
At least 300 hours per three-semester-hour course of prescribed experiences in school psychology, completed at approved schools (K-12), and supervised by an approved school psychologist. The student is advised to check national and multi-state requirements for internship experiences. *Prerequisites: PSY 6650 and approval of instructor.*
- PSY 7794 Field Project (3)**  
An independent study of a problem of a practical nature that is encountered in a field setting. A proposal for the study and a written report of findings must be approved by the student's advisory committee. The advisory committee may administer an oral examination covering the research findings.
- PSY 7795 Thesis (3)**  
**7795**  
Independent research for and preparation of a scholarly paper related to a school psychology problem under the supervision of the student's advisory committee. A research proposal and the written paper must be approved by the student's advisory committee. The advisory committee will administer an oral examination covering the research findings. *Grading system is Pass/Fail.*
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- QUANTITATIVE METHODS**
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- QM 6640 Statistical Analysis for Managers (3)**  
This course provides an in-depth study of the fundamental theories, concepts, and principles of statistics. Coursework will include extensive use and application of statistical tools to analyzing business data using statistics software. Topics covered include descriptive statistics, probability distributions, sampling, estimation, hypothesis testing, ANOVA, and regression analysis. *Prerequisite: All business foundation courses or equivalent.*

**QM 6641 Management Science (3)**

An analysis of the probabilistic and deterministic quantitative techniques available to business managers involved in the decision-making process of the marketplace. Included is an evaluation of the models and processes now available for problem-solving purposes. *Prerequisite: QM 6640*

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**READING**


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**RED 6603 Special Topics in Literacy (3)**

An in-depth investigation of an approved topic designated by the instructor and the student for further research and exploration of a particular topic in literacy education.

**RED 6625 Specialized Study in Area of Literacy (1-3)**

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, the appropriate college dean, and the Dean of the Graduate School. 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 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.*

**RED 6630 Directed Reading Practicum (3)**

This course is designed to provide the future teacher with directed practice in providing reading interventions to individual students or small groups of students in school settings. Experiences in the planning and preparation of lessons, modification of lesson procedures, and materials to fit student needs and the ongoing evaluation of student progress are included.

**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 6674 Literacy in the Content Areas Grades 6- 12 (3)**

The examination of research-based methods and materials for teaching reading and writing in grades 6-12. Field experiences required.

**RED 6675 Literacy Instruction for Diverse Populations (3)**

A study of English language learners and culturally and academically diverse learners and an examination of appropriate instructional strategies for those learners. Field experiences required.

**RED 6678 Literacy and Multicultural Diversity (3)**

A course designed to help teachers explore the cultural values, language structures, and belief systems of the major racial, ethnic, and national groups found in today's classrooms. Specifically, methods, materials, and evaluation instruments and techniques which would maximize learning efficiency for these culturally diverse groups will be introduced. Children's literature and instructional activities that would increase self esteem and understanding of cultural diverse groups and their contributions to society will be explored.

**RED 7778 Teaching Reading to Culturally Diverse Groups Through Literature (3)**

A course designed to help teachers explore the cultural values, language structure and belief systems of the major racial, ethnic, and national groups found in today's classrooms. Specifically methods, materials and evaluation instruments and techniques which would maximize learning efficiency for these culturally diverse groups will be introduced.

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**GENERAL SCIENCE**


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**SCI 5503 Conservation (3)**

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

**SCI 5560 Science and Society (3)**

A study of the social, political and economic implications of scientific discovery, innovation, and implementation. *Prerequisites: Twelve hours of coursework in science or permission of instructor*

**SCI 5595 Selected Topics in Science (3)**

Specialized topics not generally included in course offerings. *Course may be taken twice for a maximum of six hours toward degree requirements. Prerequisite: Eight hours of coursework in science or permission of instructor. See semester hour limits listed under Course Restrictions in General Regulations section.*

**SCI 6625 Specialized Study in Area of Science (1-4)**

**6626**  
**6627**  
A study of a problem or problems using research techniques. Selection of a 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 an 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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**SECONDARY EDUCATION**


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**SED 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.

**SED 6695 Secondary Internship Grades 6-12 (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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**SOCIOLOGY**


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- SOC 5517 Minorities in the U. S. Social Structure (3)**  
An analysis of the role of racial and cultural minorities in American society. Contributions of anthropology, sociology, and psychology to theories of minority/majority group relations.
- SOC 5520 Sociological Theory (3)**  
An introduction to the area of sociological theory with emphasis on theorists, their works and contributions to modern sociological theory.
- SOC 5530 Social Problems in Contemporary Society (3)**  
A study of the changing social structure, urban and rural problems, self-help and citizen participation, indigenous leadership and urban-rural fringe problems.
- SOC 6625 Specialized Study in Area of Sociology (3)**  
**6626** A study of a problem or problems using research  
**6627** techniques. Selection of problem must be approved by the professor under whom the study is to be made and the Dean of the Graduate School. 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 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.*
- SOC 6630 Advanced Gerontology (3)**  
A graduate seminar on practical and methodological aspects of modern gerontology. Special emphasis is placed upon interdisciplinary, agency, and social intervention techniques for administrative and service workers with aged populations. The practical orientation of the seminar is designed to promote the development of professional skills in applied gerontology. *Prerequisite: SOC 3350.*
- 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 deviation 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 6602 Motor Skills and Human Performance (3)**  
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.
- SFM 6604 Statistical Analysis and Interpretation (3)**  
This course requires students to utilize statistical fundamentals, analyses, and interpretation of statistics. Statistical information includes, but is not limited to, sampling, hypothesis testing, regression, frequency distributions, t-tests, parametric and non-parametric statistical techniques, multivariate data analysis (MANOVA), and others using SPSS and other statistical software.
- SFM 6610 Physical Education, Sport and the Law (3)**  
The course is designed to provide students with an in-depth awareness and understanding of legal responsibilities of sport managers, coaches, and administrators. Emphasis will be placed upon critically analyzing the legal theories, structures, statutes, case law, and standards that apply to the sport industry and that impact sport organizations. Substantive legal areas include tort, constitutional, antitrust, intellectual property, agency, contract, and business law.
- SFM 6615 Organizational Behavior & Leadership in Sport(3)**  
In this course students will study the basic concepts, theories and organization of administration including financial management as applied to sport, physical education, and recreation.
- SFM 6616 Sport Finance (3)**  
This course is designed to provide students with information concerning advanced theory in finance, accounting, and managerial control of budgets.
- SFM 6617 Research Methods I (3)**  
This course allows students to explore literature and current research in sport and fitness management. A grade of "B" or better is required. *Prerequisites: SFM 6600 and SFM 6604*
- SFM 6620 Physical Fitness: A Critical Analysis (3)**  
This course is designed to prepare the student for the American college of Sports Medicine (ACSM) Health Fitness Specialist (HFS) certification. The course will examine the process of pre-participation health screening and risk stratification, administration, of physical fitness assessments and interpretation of results and the development of appropriate exercise prescriptions used in the evaluation and improvement of human fitness. *Prerequisite: SFM 6650*
- SFM 6623 Biomechanics of Sport Techniques (3)**  
This course is designed to prepare the student for the National Strength and Conditioning Association (NSCA) Certified Strength and Conditioning Specialist (CSCS) certification. The course explores basic biomechanical concepts and their application in the analysis of sport technique for goal of improving athletic performance. *Prerequisite: SFM 6650*

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**SPORT AND FITNESS MANAGEMENT**


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- SFM 6600 Foundations of Sport & Fitness Management (3)**  
This course is designed to introduce graduate students to the field of sport management. Various topics related to sport management and related fields will be discussed. *Students must enroll in this course during their first semester of graduate school.*
- SFM 6625 Specialized Study in SFM (1-3)**  
**6626** Study of problem or problems using research  
**6627** technique. Selection of problem must be approved

by student's adviser, instructor under whom the study is to be made, and the appropriate Director of Graduate Studies. 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. 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.*

- SFM 6632 Critical Issues in Sport and Fitness Management (3)**  
This course focuses on the recognition, discussion, and systematic analysis of controversial issues and problems encountered in the conduct of professional activities in sport, fitness, health and physical education.
- SFM 6640 Sport Marketing (3)**  
The purpose of this course is to teach the sports manager how to create a marketing plan. The emphasis is on following a ten-step procedure designed primarily for the non-profit sector and learning the theoretical base required to complete the process accurately and proficiently.
- SFM 6642 Managing Sport and Physical Activity Organizations (3)**  
This course focuses on the conceptual analysis of management in sport. The field of sport management is described in terms of the services within the field, and management itself is viewed as the coordination of the processes of production and marketing of those services. Students will discuss and demonstrate knowledge in managerial functions of planning, organizing, leading and evaluating problems associated with the production and marketing of services within the field of sport management. *Prerequisite: SFM 6600*
- SFM 6644 Human Resource Management in Sport and Physical Activity (3)**  
This course focuses on management of human resources within sport and physical activity organizations. The course will explore the organizational processes of job design, staffing, leadership, performance appraisal, and reward systems. Desired outcomes of job satisfaction are examined along with organizational commitment. *Prerequisite: SFM 6600*
- SFM 6650 Sport Nutrition and Exercise Metabolism (3)**  
This course examines established dietary requirements of athletes relative to performance, training, and recovery. Emphasis will be placed on the use of peer reviewed literature to understand the importance of pre- and post-event nutrition, nutritional issues faced by athletes, and possible ergogenic strategies, foods, and dietary supplements. Examination of metabolic pathways will allow advanced interpretation of the metabolism of macronutrients during conditions of exercise and disordered metabolism. *Prerequisite: SFM 6670*

- SFM 6670 Exercise Physiology (3)**  
This course examines acute and chronic physiological responses of the respiratory, cardiovascular, and musculoskeletal systems to the demands of exercise. Contributions made by aerobic and anaerobic metabolism to energy production will be examined. The contribution of various physiological variables will be investigated to facilitate an understanding of the physiological basis of human performance.
- SFM 6671 Advanced Exercise Physiology (3)**  
This course will allow students to experience and explore advanced concepts, topics, and laboratory techniques related to exercise physiology. Material covered in this course will prepare students to interpret, conduct, and share advanced material with their peers. Students will have the opportunity to implement an advanced research project or commence thesis-related research. *Prerequisite: SFM 6650*
- 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 Practicum in Sport and Fitness Mgt. (1-9)**  
**6681**  
**6682**  
A supervised application of the concepts, principles, and skills acquired by the students in previous course work. Problems in the area of financial management, personnel supervision, fitness management, sport management, and curriculum development will be identified. Students will explore and identify alternative solutions to problems through group interactions.
- SFM 6690 Internship (3)**  
A 400-hour supervised experience in planning, staging and evaluating a formal practicum in related field.
- SFM 6691 Research Methods II (3)**  
This course examines the variety of research methods and reporting methods used in sport & fitness management research. A grade of "B" or better is required. *Prerequisite: SFM 6600, SFM 6604, and SFM 6617 with a "B" or better*
- SFM 6695 Thesis (3)**  
The thesis must be related to an educational problem or situation within sport and fitness management. Information regarding the thesis program may be obtained from the Dean of the Graduate School.

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**SPECIAL EDUCATION**


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- SPE 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. *Co-requisite: SPE 6654 or SPE 6655*
- SPE 6609 Content Enhancement (3)**  
This methods course emphasizes inclusive teaching practices that combine an interactive instructional sequence with a teaching device for teachers of secondary level students (6-12) with mild disabilities. This course focuses on content enhancement routines that help teachers carefully organize and deliver content area information.
- SPE 6610 Research Trends and Issues in Special Education (3)**  
This course is designed to provide advanced students with an in-depth study of significant research in special education. Specifically, this course focuses on (a) methodological issues that relate to descriptive research, intervention, research, case study, qualitative and longitudinal research, (b) issues in assessment and instrumentation and (c) ethical issues related to research in special education. The course is premised on the trend of recent changes in the discipline from a service orientation to one that is becoming more scientific. *A grade of "B" or better is required.*
- SPE 6614 Adaptive Teaching Strategies for Students with Mild Disabilities K-6 (3)**  
This course focuses on the characteristics of students with learning disabilities and attention deficit/hyperactivity as well as classroom-tested and research-based instructional strategies. Specifically this course provides strategies for adapting curriculum materials, teacher instruction, and student practice activities for both basic-skills and content area instruction. *Prerequisite: SPE 3340 or SPE 6640 (or equivalent).*
- SPE 6615 Adaptive Teaching Strategies for Students with Moderate/Severe Disabilities K-6 (3)**  
A comprehensive study of research, theoretical issues, diagnosis, and educational planning for those students with moderate/severe disabilities. Curriculum adjustment and differentiated instruction will be emphasized. *Prerequisite: SPE 3340 or SPE 6640 (or equivalent)*
- SPE 6616 Teaching Students with Emotional and Social Needs (3)**  
This course will emphasize the behavioral, psychological, and social needs of the learner who demonstrates emotional and behavioral disabilities that significantly impact their progress in the general education curriculum and in building and maintain-
- ing appropriate social relations with peers and adults. Appropriate intervention strategies used to increase appropriate social behavior and decrease inappropriate social behavior will be studied. *Prerequisite: SPE 3340 or SPE 6640 (or equivalent)*
- SPE 6617 Adaptive Teaching Strategies for Students with Mild Disabilities –Grades 6-12 (3)**  
This course focuses on instructional approaches that emphasize teaching students effectively, regardless of disability or special need. Specifically this course provides strategies for adapting curriculum materials, teacher instruction, and student practice activities for both basic-skills and content area instruction. *Prerequisite: SPE 3340 or SPE 6640 or equivalent.*
- SPE 6618 Adaptive Teaching Strategies for Students with Moderate/Severe Disabilities—Grades 6-12 (3)**  
A comprehensive study of research, theoretical issues, diagnosis, and educational planning for those students with moderate/severe disabilities. Curriculum adjustment and the development of differential instruction will be emphasized. *Prerequisite: SPE 3340 or SPE 6640 or equivalent.*
- SPE 6620 Service Delivery Models for Multiple Disabilities (3)**  
The purpose of this course is to explore the many issues surrounding the education of secondary students with multiple disabilities. Special emphasis is placed on assessment, instructional models, transition programming, and data-based instructional decision making. *Prerequisite: 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*

- 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 6654 Collaborative Internship Grades 6-12 (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. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. *Co-requisite: SPE 5544*
- SPE 6655 Collaborative Internship Grades K-6 (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. The student will demonstrate skills of the informed, reflective decision maker throughout the internship experience. *Co-requisite: SPE 5544*
- 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 6695 Collaborative Teacher 6-12 Practicum (3)**  
This course is designed to provide a supervised experience related to instruction in the area(s) of specialization 6-12. The application of skills, concepts, and principles acquired in previous coursework, as well as in 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 6698 Collaborative Teacher 6-12 Initial Practicum (3)**  
This course is for those candidates who do not currently hold an undergraduate teaching certificate for Collaborative Teacher, 6-12. This is a supervised experience in the 6-12 classroom with both the inclusion of disabled students into the general education classroom and with disabled students in a resource or self-contained setting. The prospective Collaborative Teacher will spend 100 clock hours in designing instructional 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. *Prerequisites: Completion of all core and teaching field areas for persons who do not currently hold an undergraduate teaching certificate in Collaborative Teacher, 6-12.*

**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. *Prerequisites: 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. *Prerequisites: Completion of all core and teaching field courses for persons who do not currently hold an undergraduate teaching certificate in Collaborative Teacher, K-6.*

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**TAXATION**


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**TAX 6684 Federal Tax Research (3)**

A study of how to identify federal tax issues, locate the applicable tax authorities, evaluate the weight of the authorities, reach conclusions, and communicate the results of the research. *Prerequisites: Admission to the MBA, M.Acc or M.Tx program, including fulfillment of all business foundation courses and ACT 4494 and ACT 4495. A grade of "B" or better is required for M.Tx students.*

**TAX 6685 Taxation of Individuals (3)**

This course is an in-depth study of the federal taxation of individuals with heavy emphasis on property transactions. This course covers the major tax doctrines applicable to the taxation of individuals. This course addresses includible and excludible items of income and deductions allowed in calculating taxable income. The course requires the writing of a tax research paper, which would be suitable for submission to a high quality professional tax journal. *Prerequisite or co-requisite: TAX 6684*

**TAX 6686 Estate and Gift Taxation (3)**

This course covers the federal taxation of estates and gifts and provides an introduction to the federal income taxation of estates and trusts. This course will have a tax planning focus. *Prerequisite or Co-requisite: TAX 6684*

**TAX 6687 Tax Practice and Procedure (3)**

This course is a study of the Internal Revenue Service (IRS) tax assessment and collection process, including the examination of tax returns and the appeals process. The course covers the statutes of limitation on assessment, collection and refund claims. The course explains the legal and ethical requirements for practice before the IRS and the civil and criminal penalties that may be assessed. The course requires the preparation of a sample protest letter for a conference with the IRS Appeals Division. *Prerequisite or co-requisite: TAX 6684*

**TAX 6688 Taxation of Corporations and Shareholders (3)**

The course is a study of the federal taxation of corporations and shareholders. The course covers the tax aspects of forming a corporation, operating a corporation, distributions in respect of stock, redemptions of stock, and corporate liquidations. The course requires the writing of a tax research paper, which would be suitable for submission to a high quality professional tax journal. *Prerequisite or co-requisite: TAX 6684*

**TAX 6689 Taxation of Partnerships and Partners (3)**

The course is a study of the taxation of partnerships and partners. The course covers the tax aspects of acquiring a partnership interest, the partner's share of partnership income or loss, distributions of partnership assets and calculation of a partner's basis in the partnership. The course requires the writing of a tax research paper, which would be suitable for sub-

mission to a high quality professional tax journal. *Prerequisite or co-requisite: TAX 6684*

**TAX 6690 State and Local Taxation (3)**

The course is a study of state and local taxation. The course covers the tax aspects of state income tax, state and local sales and use tax, state franchise tax, and state gift and inheritance tax. *Prerequisite or co-requisite: TAX 6684*

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**TEACHER LEADER**


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**TL 7700 Adult Learning Theories and Managing Change(3)**

This course will focus on the examination of how adults learn in instructional settings and managing change. The adult learners' characteristics will be examined. Adult learning theory and current trends and advancements in adult learning and managing change will be examined. The focus will be on preparing the student to make better instructional decisions and use of resources in the education and training of adults.

**TL 7702 Involving Parents and Community Stakeholders (3)**

The focus of this course is on the successful school and what it must do to garner parental involvement and the community support that it needs. This course is a combination of the theory of community relations (why must communities support local schools to achieve their goals?) and a primer on how to develop the family and community partnerships which will help the school to achieve its goals.

**TL 7717 Mentoring (3)**

The purpose of this course is to prepare educational leaders to serve as role models and mentors for individuals. The educational leaders will develop methods, techniques and organize mentorship programs. Leaders will develop a knowledge base upon which to make informed reflective decisions about mentorship programs in diverse educational settings.

**TL 7737 Curriculum (3)**

This course examines the tenets of curriculum. This course peruses the current research that supports student learning and engagement. In order for instructional leaders to promote effective learning environments, they must be able to understand, identify and apply effective learning theories and methodologies.

**TL 7740 Creating Effective Learning Environments (3)**

Instructional leaders must work within the framework of the Individuals with Disabilities Education Act (IDEA) in order to effectively create, develop and maintain a highly efficient learning environment. This course will present best practices and the most up to date research related to the creation of effective learning environments within the public schools. The focus of the course will be both theoretical and practical in nature. As a result of the course, instructional leaders will be able to establish,

develop, and maintain and evaluate instruction in order to build an effective learning environment.

**TL 7747 Instructional Coaching (3)**

This course focuses on (a) common forms of instructional coaching including literacy coaching, cognitive coaching, and content coaching and (b) the components/stages of instructional coaching.

**TL 7757 Staff Development**

Candidates consider and evaluate methods for promoting professional growth focusing on the improvement of teaching and learning. Various approaches to staff development and in-service education are examined in terms of their purposes and components.

**TL 7767 Communication and Consultation Methods Practicum (3)**

This course explores communication models and consultation methods as well as the implementation of those models to improve educational practices in the teacher leader. The course provides an opportunity for the teacher leader candidate to perform a variety of activities that a teacher leader must perform, under the supervision of a practicing teacher/instructional leader. Focus is placed on strategies that will result in enhanced communication among all stakeholders, and increased student achievement.

**TL 7792 Advanced Comprehensive Research Strategies (3)**

This course is intended to explore the concepts of quantitative and qualitative research methods application for research in education. Participants apply their skills in research design by completing a proposal for a substantive study related to the improvement of instructional services. *A grade of "B" or better is required.*

**TL 7794 Research in Action (3)**

The purpose of this course is to provide instructional leaders with a study of the processes involved in identifying, framing, evaluating, analyzing, and seeking information about problems faced by schools. The goal for the student is to propose a research and implement a study that examines a problem currently impacting the K-12 environment.