

ACCOUNTING		
ACT	6691	<p>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. <i>Prerequisite: MBA 5502 or equivalent</i></p>
ACT	6692	<p>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.</p>
ACT	6694	<p>Income Tax Research (3) An advanced study of selected topics in the Internal Revenue Code and Regulations with the emphasis on tax research. The course covers individual, partnership, corporations as well as estate and gift taxes.</p>
ACT	6695	<p>Accounting Research and Communication (3) An individual study of specific accounting topics and written and oral communication of the results of the study.</p>
ACT	6696	<p>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.</p>
ACT	6698	<p>Advanced Auditing (3) An examination of the AICPA's professional standards and techniques of reviewing and appraising the various functions of an organization with the objective of reporting on the opportunities for improvement and the deficiencies disclosed. Emphasis on the effectiveness of internal control structure and operating procedures.</p>
ACT	6699	<p>Contemporary Issues in Accounting (3) A study of the recent growth of accounting theory, as influenced by regulatory agencies, economic conditions, and professional accounting organizations.</p>

ADULT EDUCATION		
ADE	5560	<p>Instructional Systems Development (3) This course emphasizes systematically developed course design. Special attention is given to learning and instructional systems theory.</p>
ADE	6600	<p>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.</p>
ADE	6605	<p>Computer Based Instructional Technologies (3) This graduate level advanced survey course</p>

required. *Corequisite: BIO 5505.*

BIO 5510 Animal Behavior (3)
A study of the classical and current concepts of animal behavior including individual and social behavioral patterns. *Prerequisite: genetics. Corequisite: BIO L510.*

BIO L510 Animal Behavior Lab (1-3)
Experimental and observational techniques in behavior. *Corequisite: BIO 5510.*

BIO 5513 Limnology (3)
A study of the physical, chemical, geological, and biological aspects of freshwater ecosystems as influenced by activities in surrounding watersheds. *Prerequisites: general biology, general ecology, general chemistry. Corequisite: BIO L513.*

BIO L513 Limnology Lab (1-3)
Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. *Corequisite: BIO 5513.*

BIO 5514 Food Microbiology (3)
A study of food spoilage, food preservation, food-borne pathogens, microbial metabolism, and molecular techniques. *Prerequisite: BIO 5513.*

- This course covers the morphology, anatomy, physiology, taxonomy, life histories, distribution, and adaptations of fishes. *Prerequisites:* general biology, general ecology. *Corequisite:* BIO L545.
- BIO L545 Ichthyology Lab (1-3)**
A study of the structural features, identification, and classification of freshwater and marine fishes. *Corequisite:* 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. *Corequisite:* BIO L546.
- BIO L546 Herpetology Lab (1-3)**
A study of the structural features, identification, and classification of amphibians and reptiles. *Corequisite:* 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. *Corequisite:* BIO L547.
- BIO L547 Ornithology Lab (1-3)**
A study of the structural features, identification, and classification of birds. *Corequisite:* 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. *Corequisite:* BIO L548.
- BIO L548 Mammalogy Lab (1-3)**
A study of the structural features, identification, and classification of mammals. *Corequisite:* BIO 5548.
- BIO 5551 Toxicology (3)**
A study of the principles related to the adverse effects of chemicals on living organisms. *Prerequisite:* organic chemistry. *Corequisite:* BIO L551.
- BIO L551 Toxicology Lab (1-3)**
An assessment of terrestrial and aquatic toxicity of chemical agents following standard protocols. *Corequisite:* BIO 5551.
- BIO 5571 Parasitology (3)**
This course covers the taxonomy, structure, life histories, distribution, pathogenesis, and control of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance. *Prerequisites:* Any 3000-level BIO lecture and lab. *Corequisite:* BIO L571.
- BIO L571 Parasitology Lab (1-3)**
A laboratory study of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance. *Corequisite:* BIO 5571.
- BIO 5576 Special Topics (1 to 4 credit hours per course per semester)**
Specialized topics not generally included in course offerings. *Prerequisite:* Permission of instructor.
- BIO 5578 Cell Biology (3)**
A study of cell structure and function with the emphasis on biochemical and molecular mechanisms. Topics include cell division, movement, differentiation, and recognition. *Prerequisites:* genetics, microbiology, organic chemistry. *Corequisite:* BIO L578.
- BIO L578 Cell Biology Lab (1-3)**
Experimental approaches for studying cells at the biochemical and molecular levels. *Corequisite:* BIO 5578.
- BIO 5580 Histology (3)**
A study of the microscopic anatomy and function of cell types and tissues of mammalian organs. *Prerequisite:* general biology. *Corequisite:* BIO L580.
- BIO L580 Histology Lab (1-3)**
A study of the microscopic anatomy of cell types and tissues of mammalian organs. *Corequisite:* 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. *Corequisite:* BIO L582.
- BIO L582 Molecular Biology Lab (1-3)**
Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings. *Corequisite:* BIO 5582.
- BIO 5592 Guided Independent Research (1-4 credit hours per course per semester)**
Additional information is indexed under "Guided Independent Research and Study."
- BIO 5594 Guided Independent Study (1-4 credit hours per course per semester)**
Additional information is indexed under "Guided Independent Research and Study."
- BIO 6600 Aquatic Entomology (3)**

A study of the morphology, physiology, taxonomy, life histories, and ecology of aquatic insects. *Prerequisites: general biology, general ecology. Corequisite: BIO L600.*

- BIO L600 Aquatic Entomology Lab (1-3)**
 Classification and identification of immature and adult aquatic insects. A collection is required. *Corequisite: BIO 6600.*
- 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 and histology, or permission of instructor. Corequisite: BIO L602.*
- BIO L602 Human Pathophysiology Lab (1-3)**
 A study of the microscopic anatomy of normal and diseased tissues and organs. *Corequisite: 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. Corequisite: BIO L606.*
- BIO L606 Economic Botany Lab (1-3)**
 A study of the basic plant anatomy and taxonomy of plants of significance. *Corequisite: BIO 6606.*
- BIO 6620 Field Protistology (4)**
 An advanced study of protists from freshwater and marine habitats including collection techniques, taxonomy, specimen preparation and protistan ecology.
- BIO 6625, 6626 Specialized Study in Biology (1-4)**
 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 stu-

Corequisite: 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. Corequisite: CHM L552.*

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 ongo-

- CS 5546 Information Organization and Retrieval (3)**
The theory of information organization, information requirements analysis, and statistical methods is examined. A survey of sorting methods, search techniques, pattern matching and information retrieval systems is also discussed. *Prerequisite: CS 3323.*
- CS 5547 Applied Systems Analysis (3)**
The analysis and logical design of computer and information processing systems' industrial techniques is examined to state and analyze information systems' requirements. Additional topics include feasibility and cost analysis studies, hardware/software selection and evaluation. *Prerequisite: CS 4447.*
- CS 5548 Systems Programming and Operating Systems (3)**
This course presents an introduction to assembler design, macroprocessing facilities, and loader schemes. Operating system topics include I/O programming, memory, processor, device, and information management. *Prerequisite: CS 4448.*
- CS 6625, 6626, 6627 Specialized Study in Computer and Information Science (1-4)**
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 adviser, instructor, college dean, and graduate dean. 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 four (4) semester hours. With prior approval, there may be a substitution for one (1) required course in the student's program.
- CS 6640 Data Base Management Systems (3)**
An overview of the need for centralized control of data resources and tools is explored. The course includes a survey of current data models and systems, and a review of tools commercially available including data dictionary/directory systems and data conversion software.
- 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 3343.*
- CS 6644 Applied Computing Techniques (3)**
This course reviews formal definitions and practical applications using string operations, linked lists, dynamic storage allocation, array operations, block structure, recursion and disk access. It involves the application of appropriate languages to the execution of programming projects. *Prerequisite: CS 5546.*
- CS 6646 Information Systems for Operations and Management (3)**
A study of 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 Operations Analysis and Modeling (3)**
The theory and design of modeling problems, and simulation models for queuing are reviewed. Discrete event and continuous simulation models are analyzed. Simulation languages and the implementation of models on computers using general purpose and simulation languages is 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 and CS 5547.*
- CS 6649 Special Topics in CIS (3)**
A series of advanced topics in areas of computer and information 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 6699 Research and Thesis (1-6)**
Guided research in Computer and Information 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

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within guidelines provided by the faculty member and to defend it before a thesis committee. Prerequisites: Unconditional admission to the Master of Science in Computer Science program and completion of twenty-four (24) semester hours of course work

COUNSELING

CP 5535 Treatment of Addictive Family Diseases (3)
A study of typical char

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)

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. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Prerequisite: Completion of CP 6650 and adviser approval.*

CP 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. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Prerequisite: Completion of CP 6650 and adviser approval.*

CP 6670 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. *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. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Prerequisite: CP 6670.*

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, CP 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, CP 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)

results. Application of these skills in the form of a written project using the Publication Manual of the American Psychological Association (APA) 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 cogni

and discusses alternative ways of fundraising. Particular attention will be given to grant writing protocols and procedures, as well the dynamics involved in responding to a Request for Proposal, and understanding the school system's bureaucratic structures. *Prerequisite: Restricted to students who are admitted to an NCATE approved EAL Certification program.*

EAL 6613 Legal Issues in Public Education (3)
This course provides an introduction to the legal basis for public education and patterns of education control. Some attention is given to the necessity of providing a variety of school services and programs. Additional attention is given to the instructional program requirements to meet legal standards. Restricted to students who are admitted to an NCATE approved EAL Certification program and must be taught by an individual who has successfully completed the Law requirement under Alabama Code (Act 2001-706, Section 16-1-38).

EAL 6615 Social and Philosophic Foundations of Educational Leadership (3)
This course provides an overview of the societal structure and problems affecting education as well as the philosophical schools of thought in educational leadership. *Restricted to students who are admitted to an NCATE approved EAL Certification program.*

EAL 6625 Special 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, 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. *Restricted to students who are admitted to an NCATE approved EAL Certification program.*

EAL 6626 Specialized Topics in Educational Leadership (3)
An independent 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 conducted, 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 presentation.

EAL 6627 Specialized Topics in Educational Leadership (3)
An independent 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 conducted, 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 presentation.

EAL 6633 Educational 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 of successful leaders are utilized. The ethical and moral aspects of leadership are examined. *Restricted to students who are admitted to an NCATE approved EAL Certification program.*

EAL 6643 Administration of School Personnel (3)

admitted to an NCATE approved EAL Certification program and have permission of the Department.) There must be a minimum of six months from the beginning of this course to the completion of EAL 6664.

- EAL 6664 Internship in Educational Administration II (3)**
The purpose of this course is to provide students with school-based administrative experience in elementary, middle and secondary grades, as well as central office support functions. Full-time university educational

quired.

- EAL 7726 Specialized Topics in Educational Leadership (3)**
 An independent 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 conducted, 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 presentation. Class A Certification in Educational Administration is required.
- EAL 7727 Specialized Topics in Educational Leadership (3)**
 An independent 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 conducted, 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 presentation. Class A Certification in Educational Administration is required.
- EAL 7735 Development and Operation of Educational Plant Facilities (3)**
 This course is designed to present to the student procedures and issues related to the design, development, and operation of educational plant facilities. Class A Certification in Educational Administration is required.
- EAL 7742 History of Educational Leadership (3)**
 This course will explore the rich tradition and history of the field of Educational Leadership. The history of the theory and practices associated with this field will be examined and reviewed. Class A Certification in Educational Administration is required.
- EAL 7746 Personnel Relations and Processes in Educational Leadership (3)**
 This course deals with personnel processes and personnel management from the perspective of the central office. Topics include: human resource planning, forecasting, selection, staff development, training and

minates in the creation of the research proposal, which is a compilation of the theory, and methods learned in the course. All studies that deal with human subjects must be approved by their campus research review board. Class A Certification in Educational Administration is required.

- EAL 7795 Thesis: Problem Analysis Implementation (3)**
The purpose of this course is for students to implement the project or field study proposed in EAL 7794. Data will be collected, analyzed and summarized in writing. A summary of the project and recommendations for further study should also be submitted. The faculty adviser may require the student to defend the study before a faculty committee. The course is designed to prepare educational leaders with research knowledge that supports informed reflective decisions in diverse educational settings. Class A Certification in Educational Administration is required.

ENVIRONMENTAL ANALYSIS AND MANAGEMENT

- EAM 5513 Limnology (3)**
The physical, chemical, geological, and biological aspects of freshwater ecosystems as influenced by activities in surrounding watersheds. *Prerequisites: general biology, general ecology, general chemistry. Corequisite: EAM L513.*
- EAM L513 Limnology Lab (1-3)**
Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. *Corequisite: EAM 5513.*
- EAM 5516 Environmental Microbiology (3)**
The 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. *Prerequisites: microbiology, organic chemistry. Corequisite: EAM L516.*
- EAM L516 Environmental Microbiology Lab (1-3)**
Environmental microbiological laboratory techniques including isolation, identification, and enumeration of microorganisms from aquatic and terrestrial environments. *Corequisite: EAM 5516.*
- EAM 5520 Field Vertebrate Zoology (4-7)**
The basics of vertebrate identification, with emphasis on phylogeny, anatomy, morphology, life histories, habitats, distributions, and conservation. *Prerequisites: general biology,*

ogy, general chemistry.

- EAM 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. Corequisite: EAM L521.*
- EAM L521 Population Ecology Lab (1-3)**
Field exercises in identifying ecological problems, formulating and testing hypotheses, and evaluating data using standard statistical methods. *Corequisite: EAM 5521.*
- EAM 5525 Fall Flora (4-7)**
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.*
- EAM 5530 Applied Genetics (3)**
Advanced studies in genetics with emphasis on cytogenetics and molecular genetics. *Prerequisites: genetics, organic chemistry. Corequisite: EAM L530.*
- EAM L530 Applied Genetics Lab (1-3)**
An introduction to procedures and equipment used in the study of cytogenetics and molecular genetics. *Corequisite: EAM 5530.*
- EAM 5550 Environmental History of the U.S. (3)**
An introduction to environmental history of the United States from the 18th century to the late 20th 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.
- EAM 5551 Toxicology (3)**
A study of the principles related to the adverse effects of chemicals on living organisms. *Prerequisite: organic chemistry. Corequisite: EAM L551.*
- EAM L551 Toxicology Lab (1-3)**
Assessment of terrestrial and aquatic toxicity of chemical agents following standard protocols. *Corequisite: EAM 5551.*
- EAM 5552 Industrial Hygiene (3)**
Identification and correction of chemical, biological, and physical hazards in and

around the workplace. *Prerequisite: organic chemistry. Corequisite: EAM L552.*

- EAM L552 Industrial Hygiene Lab (1-3)**
 Methods and procedures for sampling, analyzing, and evaluating chemical, biological, and physical agents in the workplace. *Corequisite: EAM 5552.*
- EAM 5555 Principles of Waste Management (4)**
 The principles of waste management in modern societies and the protection of human health and the environment. Understanding of regulations to enable students to prepare and review permits for landfills and understand the various technologies associated with waste management. Summary of applicable local, state, and federal regulations. *Prerequisites: pre-calculus algebra and genetics or general physics.*
- EAM 5560 Stormwater Management (4)**
 Urban watershed processes, urban watershed restoration, urban watershed evaluation techniques, stormwater regulatory requirements, human aspects of stormwater management and stormwater management case studies. *Prerequisite: permission of instructor.*
- EAM 5561 Erosion and Sediment Control (4)**
 A study of the processes of erosion and sedimentation and ecological effects. Selection and application of nonstructural and structural measures for erosion and sediment control. Summary of local, state, and federal regulations. *Prerequisites: permission of instructor.*
- EAM 5576 Special Topics (1 to 4 credit hours per course per semester)**
 Specialized topics not generally included in course offerings. *Prerequisite: Permission of instructor.*
- EAM 5578 Cell Biology (3)**
 This course covers cell structure and function with the emphasis on biochemical and molecular mechanisms. Topics include cell division, movement, differentiation, and recognition. *Prerequisites: genetics, microbiology, organic chemistry. Corequisite: EAM L578.*
- EAM L578 Cell Biology Lab (1-3)**
 Experimental approaches for studying cells at the biochemical and molecular levels. *Corequisite: EAM 5578.*
- EAM 5582 Molecular Biology (3)**
 A study of the fundamental principles of chromosomal organization and gene expres-

- EAM 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.*
- EAM 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.*
- EAM 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.
- EAM 6664 Restoration Ecology (3)**
 This class presents an introduction to ecological approaches toward reconstruction of degraded or destroyed ecosystems; ecological basis of creating self-sustained ecosystems; planning, implementing and assessing restoration programs, economic and social context of restoration. *Prerequisites: an undergraduate ecology course and one year of general chemistry.*
- EAM 6665 Sustainable Development (3)**
 This course will include classroom lectures, discussions, seminars, and classroom participation on sustainable development and related issues.
- EAM 6670, 6671 Special Topics (1-4)**
 Specialized topics not generally included in course offerings. A maximum total of four semester hours is allowed for program credit.
- EAM 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 pro-

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. Preo a90.00015w[
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EDU 6611 Educational Technology in the Curriculum (3)

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 6680 The Alternative Experience Internship Grades K-6 (3)**
This field experience is designed only for students who are admitted to the Alternative Fifth-Year Experience Route Program in

Elementary Education. The internship will consist of a minimum of 100 clock hours of instructional experiences in elementary classroom (K-6) settings.

- EDU 6682 Internship in Area of Specialization (3)**
This field experience is designed for teacher education candidates who hold current graduate-level professional educator certification and desire additional certification in another field and/or level. Experiences in-

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own teaching. *Prerequisite: EDU 6698 or EDU 6653.*

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). *Prerequisite: This course is restricted to Ed.S. candidates only.*
- EDU 7795 Thesis (3-6)**
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.
- EDU 9960 Environmental Science: Project WET (1)**
Project WET (Water Education for Teachers) is an interdisciplinary, supplementary environmental and conservation education program. The goal of Project WET is to facilitate and promote awareness, appreciation, knowledge, and stewardship of water resources.

		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	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	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	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	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	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.
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	7725, 7726, 7727 Specialized Study in Elementary Education (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.
ELE	6625, 6626, 6627	Specialized Study in Elementary Education (1-3) 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.	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	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	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

EMBA 6642	Quantitative Methods for Business (3)	A blending of topics in business statistics and quantitative modeling applied to business problems. The course is designed to develop students' ability to apply inferential statistical methods and modeling skills to decision making in business. Topics will include, but not be limited to, probability concepts, hypothesis testing, forecasting, simple and multiple regression, linear programming models, project management, and simulation.	ENG 5504	Milton (3)	of the 16 th and early 17th centuries with emphasis on Sidney, Spenser, Donne, and Jonson. A study of Milton's poetry and major prose.
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.	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.
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.	ENG 5513	Modern Short Story (3)	An examination of 20th- and 21st-century short stories.
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.	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.
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.	ENG 5516	Nineteenth-Century American Novel (3)	A study of representative American novels of the 19 th century.
			ENG 5526	Modern Poetry (3)	A study of 20 th - and 21 st 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)	
ENGLISH					
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 <i>Beowulf</i> , <i>Piers Plowman</i> , <i>Sir Gawain and the Green Knight</i> , mystery plays, <i>Le Morte d'Arthur</i> , and other works.			
ENG 5503	English Renaissance Literature (3)	This course covers English prose and poetry			

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.

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, 6626, 6627 Specialized Study in Area of Geography (1-6 hours)
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

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education with emphasis on issues of major concern to individual students.

HEA 6690 Financing of Higher Education (3)
An analysis of private, state, and federal revenue sources; student aid, program budgets, financial methods and practices through the combination of theory with problems and issues facing the financing of higher education.

HEA 6696 Practicum in Higher Education (1-3)
The Practicum is a supervised application of the 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.

HISTORY

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 20th 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 Readings and Research in 20TH Century America (3)
Developments which have produced critical issues including social reform movements, internal and international crises, centralization of power, search for security, and social change. Montgomery only.

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 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 The American Revolution And The New Nation, 1763-1815 (3)
Ideas and institutions which led to American independence, the creation of the American union, and the development of a distinctive American culture in the early national period.

HIS 5513 Antebellum, Civil War And Reconstruction (3)
Nationalism, Jacksonian democracy, territorial expansion, slavery and sectional strife, and the resulting Civil War and Reconstruction are included.

HIS 5514 Emergence Of Modern America, 1877-1919 (3)
Agricultural decline and crisis, industrialization and urbanization, Progressive reform era, World War I, and America as a world power are discussed.

HIS 5515 Contemporary America (3)

nial period, escalating involvement of the Kennedy and Johnson administrations, and Vietnamization and withdrawal under President Nixon. Note: May be used for political science credit.

- HIS 5523 U.S. Foreign Policy To 1920 (3)**
 A study of the factors, forces, and functions in the making of American foreign policy from the 1760's to 1920. 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 5532 Russia To 1861 (3)**
 A study of the history of the Eastern Slavic people from the prehistoric period, through the Kievan, Appanage, Muscovite, and Imperial periods from Peter the Great to the emancipation of the serfs in 1861.
- HIS 5533 Russia Since 1861 (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, Cold War, Soviet domestic problems, and the disintegration of the USSR.
- HIS 5534 Major Personalities in the Development of Civil Rights in America (3)**
 Study of important civil rights personages and their writings from Fredrick Douglass and other pre-Civil War activists and thinkers to the present.
- HIS 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. Note: May be used as geography credit.
- HIS 5536 Civil Rights in Alabamredrick Douglass**

appropriate for teaching in the content areas for grades 6-12. Topics addressed will include teacher evaluation in the public schools, collaboration with special education teachers, and lesson planning formats. In addition, for three hours of credit, teaching methods, selection, organization, and use of history and social science materials for grades 6-12 will be covered in detail. A professional laboratory experience is included in this course. May be taken as SS 4481.

HIS 5582 Hispanic American Beginnings (3)
Colonial systems of Spain and Portugal in the Americas from the 16th to 19th centuries, with emphasis on revolt and the establish-

COURSE DESCRIPTIONS - 110

political growth. On demand.

HIS 6625, 6626, 6627 Specialized Study in Area of His-

supervision and their application in improving the teacher-pupil learning situations will be examined.

HPR 6623 The Biomechanics of Sports Techniques (3)

The course is designed for teachers and coaches of athletic teams. Emphasis will be placed on the importance of a knowledge of biomechanics to the teacher/coach and to those basic biomechanical concepts which are of greatest importance in analyzing sports techniques.

HPR 6625, 6626, 6627 Specialized Study in Area of HPR (1-9)

A study of the problem or problems using research 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.

HPR 6630 Programs in Health and Physical Education (3)

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.

HPR 6631 Programs in Health and Physical Education (3)

Selection and adaptation of health and physical education activities 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.

HPR 6632 Critical Issues in Sport and Fitness Management and Health and Physical Education (3)

Recognition, discussion, and systematic analysis of controversial issues and problems encountered in the conduct of professional activities in health and physical education. Particular attention is given to proposed solutions of the problem which are pertinent to class members.

HPR 6640 Sport Marketing: Physical Education, Athletics, Recreation and Intramurals (3)

The purpose of this course is to teach sports managers how to create their own 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.

HPR 6650 Nutrition and Physical Performance (3)

The course will examine the special dietary requirements of athletes, the importance of pre- and post-event nutrition, potential nutritional problems encountered by athletes and possible ergogenic0.goge a51pelan. The ee P108cr

Of particular importance is acquiring an awareness and understanding of basic concepts and problems in starting a business as well as the major ethical concerns that come from such endeavors. The information presented will enable the student to develop an understanding of the function and economic value to society of entrepreneurship.

HPR 6691 Research Techniques in Sport and Fitness Management, Health and Physical Education (3)
 The course is designed as a first course in statistics for health and physical education teachers. The content includes relevant exercises and examples that specifically pertain to one or more of the fields.

HUMAN RESOURCE MANAGEMENT

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. It addresses such topics as the judicial system, methods for resolving disputes, the constitution and the Bill of Rights as they apply to people and law involving administrative agencies. 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 in general of the law as it might impact individuals in organizations.

HRM 6603 Human Resource Management (3)
 The study of the management of people at work with emphasis on recruiting, selecting, training and evaluating personnel.

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 techniques, strategies and objectives of contract negotiation and collective bargaining in union/management relations.

HRM 6619 Seminar in Human Resource Administration (3)
 Analysis and discussion of current problems and issues in HRM.

HRM 6622 Human Resource Staffing (3)
 Study of theory, principles, and legal requirements for effective recruitment, selection, and promotion in organizational settings. The course provides an in-depth analysis of tools, techniques and statistical concepts applied to the fundamental HR function.

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.

HRM 6625, 6626, 6627 Specialized Study in the Area of Human Resource Management (1-6)
 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.

HRM 6632 Compensation Management (3)
 Designed to provide the student with both the theoretical and practical knowledge to design, administer, and evaluate compensation and benefits systems.

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.

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.

COURSE DESCRIPTIONS - 114

Myanmar, and Thailand. It investigates the historical and cultural factors contributing to their political relationships within the region and internationally.

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cussed, including those shared by developing states which have a

by a faculty committee composed of the thesis adviser and a faculty reader. The first course will cover the paper design and supporting research, while the second course will be undertaken to support the actual writing of the thesis. *Prerequisites: IR 6601 and the satisfactory completion of 24 semester hours in the MSIR program.* A grade of "pass" or "fail" will be assigned to both courses.

- 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 examination of the impact of African tribalism and colonialism in detail. It will involve the student in the political, cultural, and social aspects of these two phenomena. The content of the course will include an investigation of the politics that govern tribalism and colonialism, the sociological influences it has induced, and how the two concepts impact upon 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)**
This course investigates 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.

LAW

- 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.

MARINE BIOLOGY (MB)

bama. The courses are identified by an MB prefix.

- 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. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143*
- MB 5503 Marine Vertebrate Zoology (4)**
 A study of the biology of marine vertebrates emphasizing systematics, behavior, physiology, and ecology of local forms. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, CHML143.*
- MB 5504 Marine Botany (4)**
 A general survey of algae and vascular plants associated with the marine and estuarine environment. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143.*
- MB 5506 Marsh Ecology (4)**
 A study of the floral and faunal elements of various marine marsh communities. *Prerequisites: BIO 1101, L101, 2229, L229, CHM 1143, L143.*
- MB 5521 Marine Technical Methods (2)**
 An introduction to the hardware of marine science, sampling procedures, processing, station location, and fianr -1.1533n06 TD1.1533Tw[(P)5(r)1uop0 Tw4 introdMexict.

<p>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. <i>Prerequisites: Completion of a minimum of 24 semester hours in the MBA program, with a “B” average or better, including the following courses: ACT 6691, MBA 6651, MBA 6631, MBA 6661 and MBA 6642; or approval of the department chair.</i> Students should be in the last term of their program when completing this course.</p>	<p>MBA 6634 Derivative Securities (3) A study of options and futures markets, with emphasis on the nature of speculative transactions, pricing, and method of trading. <i>Prerequisite: MBA 6631.</i></p>	<p>national financial institutions, and the management of the risks associated with international business. <i>Prerequisite: MBA 6631.</i></p>
<p>MBA 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.</p>	<p>MBA 6642 Quantitative Methods for Business (3) A blending of topics in business statistics and quantitative modeling applied to business problems. The course is designed to develop students’ ability to apply inferential statistical methods and modeling skills to decision making in business. Topics will include, but not be limited to, probability concepts, hypothesis testing, forecasting, simple and multiple regression, linear programming models, project management, and simulation. <i>Prerequisite: MBA 5505 or equivalent.</i></p>	<p>MBA 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. <i>Prerequisite: MBA 5503, 5505 or equivalents.</i></p>
<p>MBA 6625, 6626, 6627 Specialized Study in the Area of Business Administration (1-3) Study of problem or problems using research techniques. Selection of the problem must be approved by the student’s adviser, the instructor under whom the study is to be made, and the appropriate dean or branch director. The study 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.</p>	<p>MBA 6652 Macroeconomics and Forecasting (3) An analysis of the causes of business cycles with the applications of macroeconomic theory and economic forecasting techniques available to the business manager. <i>Prerequisite: MBA 5503, 5505 or equivalents.</i></p>	<p>MBA 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 resources and strengths with global marketing opportunities, and</p>
<p>MBA 6631 Managerial Finance (3) A comprehensive and advanced study of financial analysis, planning, and control techniques for a business entity with emphasis on corporations. <i>Prerequisite: MBA 5502 or equivalent.</i></p>	<p>MBA 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. <i>Prerequisite: MBA 6631.</i></p>	<p>stret, st3 Tlj9 03-1.</p>
<p>MBA 6633 International Finance (3) An examination of the foreign exchange market, exchange rate determination, inter-</p>		

played by management and labor in carrying out production and application of selected quantitative techniques used in production. *Prerequisite: MBA 5504, 5505 or equivalents.*

The study, design, implementation and operation of a system within the organization.

MANAGEMENT

MGT	6601	<p>Advanced Concepts and Topics in Management (3) Provides an introduction to the fundamental theories, concepts, principles and practices in private, public, and not-for-profit management.</p>
MGT	6625, 6626, 6627	<p>Specialized Study (1-6) Study of a problem or problems using research techniques. Selection of the problem must be approved by the student's adviser, the instructor under whom the study is to be made, and the appropriate branch director. The study should contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. No more than three semester hours credit of this course may be transferred in from another institution.</p>
MGT	6670	<p>Seminar in International Management (3) A survey of theories and issues related to managing the internationalization of business firms and multinational management.</p>
MGT	6671	<p>Organizational Behavior (3) The evolution of theories of human behavior in organizations with emphasis on modern concepts of organization and behavior of individuals, groups and the organization in the global business environment.</p>
MGT	6673	<p>Operations Management (3) Description and analysis of the conditions under which production of goods and services takes place. Delineation of the roles played by management and labor in affecting production. Quantitative techniques used in production.</p>
MGT	6674	<p>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.</p>
MGT	6675	<p>Theory of Organizations (3) The study of general business management from a structural standpoint: planning, organizing, staffing, directing, and controlling.</p>
MGT	6677	<p>Systems Management (3)</p>

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. *Prerequisites: 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.

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 pagentry, 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

6620	Bassoon
6621	Saxophone
6622	Trumpet
6623	Horn
6624	Trombone
6645	Euphonium
6646	Tuba
6647	Percussion

MUS 6625, 6626, 6627 Specialized Study in Area of Music (1- 3 credit hours per course)

A study of a problem or problems using research techniques. Selection of problems must be approved by the student's adviser, instructor under whom the study is to be made, and the appropriate Director of the Graduate School. Study should contribute to student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program.

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 assi

MASTER OF SCIENCE IN NURSING

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

- NSG 5504 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. F
- NSG 5505 Health Care 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 health care. F
- NSG 5506 Curriculum Development in Nursing Education (2)**
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. Su
- NSG 5507 Issues in Women's Health (2)**
Focuses on issues and trends in women's health including both consumer and provider issues. Emphasizes the current status of women in the health care system. Su
- NSG 5510 Power, Politics, and Policy Formulation in Nursing (2)**
Analysis of the relationship of power, politics, and policy formulation to nursing and health care. Su
- NSG 5512 Advanced Health Assessment (3)**
Designed to prepare the nurse student as 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. *Corequisite: NSG 5513.* F, Sp
- NSG 5513 Advanced Health Assessment Preceptorship (3/9)**
Preceptorship course designed for clinical application of skills in advanced health assessment, clinical diagnosis and management, and health promotion, maintenance/disease prevention role of the primary care family nurse practitioner. *Prerequisites: NSG 6671 and 6649. Corequisite: NSG 5512.* Sp

ing in acute care. *Corequisite: NSG 6620, 6660 and 6691.* Sp

NSG 6622 Advanced Long-Term Nursing Care of Adults (2)
The nursing specialist's role in long-term care. Theories concepts, issues, and trends relative to nursing care of the adult with long-term health care needs. *Prerequisites: NSG 6620, 6621. Corequisite: NSG 6623, 6649.* F

COURSE DESCRIPTIONS · 126

of mothers and infants experiencing deviations from normal processes.

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.

PUBLIC ADMINISTRATION

within the context of contemporary computing and public administration. Course content emphasizes the role of information flow in the management of public organizations borrowing, risk management, benchmarking, and long term planning.

PA 6688 Government Data Communications, Network, and Systems (3)

An introduction to the subject of telecommunications. The focus is on general and government applications and how technology of data communications provides a basic cross-agency government with intranational or international information change.

PA 6694 Internship (3)

A practical learning experience in a public or nonprofit 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. Pass/Fail grade.

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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 cont

- 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. *Prerequisites: PSY/EDU 6653 or permission of instructor.*
- PSY 6648 Theories of Personality (3)**
A critical analysis of major theories and systems of personality.

QM 6640 Quantitative Analysis for Managers (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 6680 Organization of School Literacy Programs (3)
 This course covers the program, organization, and development of basic and supplementary materials for guiding teachers, faculties, and school systems in the continuous evaluation and improvement of curriculum and teaching practices. An in-depth examination of the varied roles of the reading specialist in literacy programs. *Prerequisite: Formal admission to the Reading Specialist Program.*

RED 6682 Internship: Developing Literacy Programs and Coaching Teachers (2)
 Supervised practice in modeling and managing effective literacy instruction and coaching teachers. Evaluating and designing school-wide needs assessments, literacy programs and environments, and professional development. A minimum of 100 clock hours of clinical experiences. *Prerequisite: Formal admission to the Reading Specialist Program. Corequisite: RED 6680.*

RED 6683 Internship: Literacy Intervention (2)
 Supervised administration and interpretation of instructional assessments to include screening, diagnosis, and progress monitoring with purposes of prevention, identification, and remediation of reading and writing difficulties. A minimum of 100 clock hours of clinical experiences. *Prerequisite: Formal admission to the Reading Specialist Program. Corequisite: RED 6660.*

RED 6684 Curriculum Trends in Teaching Reading (3)
 This course provides a study of theories and practices contributing to the knowledge base needed to improve reading achievement in grades K-12. The course examines how the writing process, writing across the curriculum and the use of media can be instrumental to student learning. This course is restricted to students enrolled in the Master's Degree in Reading Specialist.

RED 6686 Research-Based Literacy Assessment and

Instruction (3)

An examination of research related to the essential components of the reading and writing processes and literacy assessment. Instructional practices, approaches, methods, and curriculum materials that support reading and writing. Field experiences required.

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.

RED 9976 Alabama Reading Initiative (3)
 This course consists of two weeks of training at the Alabama Reading Initiative Summer Academy at Troy, Alabama. The Summer Academy provides extensive training in the ARI modules such as the reading/writing connection, formal and informal assessment, phonics and phonemic awareness, comprehension strategies and language development.

GENERAL SCIENCE

ration 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.

ration 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.

SECONDARY EDUCATION

- 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.

SOCIOLOGY

- 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 6625/6626/6627 Specialized Study in Area of Sociology (3)**
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 the Graduate School. The study should contribute to the student's program. Prepa-

- 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.

SPORT AND FITNESS MANAGEMENT

- SFM 6604 Measurement and Evaluation in Health**

standing of basic legal responsibilities of sport managers and coaches. The information presented enables the students to develop a working vocabulary of significant legal terms along with legal concepts and issues that have particular reference to physical education, sport and management of sport programs. In addition, activities included during the term will permit the student the opportunity to pursue, in depth, a specific legal topic and to share the information gained by means of written and oral reports.

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

SFM 6616 Sport Finance (3)
 This course is designed to provide the graduate student with information concerning advanced theory in finance, accounting, and licensing applied to managerial control of sport organizations.

SFM 6617 Readings in Health and Physical Education (3)
 An independent exploration of the literature and current research in the fields of Health Education and Physical Education.

SFM 6620 Physical Fitness: A Critical Analysis (3)
 The course involves an examination of the effects of physical activity on various fitness and health parameters by reviewing current research studies. Students will be introduced to methods of evaluating one's fitness level and the proper prescription guidelines.

SFM 6623 The Biomechanics of Sports Techniques (3)
 The course is designed for teachers and coaches of athletic teams. Emphasis will be placed on the importance of knowledge of bio-mechanics to the teacher/coach and to those basic bio-mechanical concepts which are of greatest importance in analyzing sports techniques.

SFM 6625, 6626, 6627 Specialized Study in Area of SFM or HPn9 iw.6()Tn9i(1sod(or HPR)8.r(o)a871n9i1(h)1.TD08ae)1.Tiv-1.4(invo)8.1(lves)3.9(a8.000tlemlw[000tleml)11lrentro-Th

sport and physical activity. Of particular importance is acquiring an awareness and understanding of basic concepts and problems in sport ethics as well as major ethical theories.

SFM 6674 Entrepreneurship in Sport (3)
This course is designed to provide the graduate student information concerning the preparation of starting one's own business. Of particular importance is acquiring an awareness and understanding of basic concepts and problems in starting a business as well as the major ethical concerns that come from such endeavors. The information presented will enable the student to develop an understanding of the function and economic value to society of entrepreneurship.

SFM 6680, 6681, 6682 Practicum in Sport and Fitness Mgt. (1-9)
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 Techniques in Sport and Fitness Management, Health and Physical Education (3)
The course is designed as a first course in statistics for health and physical education teachers. The content includes relevant exercises and examples that specifically pertain to one or more of the fields.

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.

SPECIAL EDUCATION

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.

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. *Prerequisites: 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. *Prerequisites: 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 maintaining 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 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 is-

sues impacting students with disabilities. Advocacy issues and collaborative roles of administrators, parents, teachers, and significant others in implementing federal legislation will be addressed. The text will be supplemented by more recent case law and policy developments in special education. *Prerequisite: SPE 3340 or SPE 6640 (or equivalent).*

SPE 6632 Assessment and Individual Programming (3)

A comprehensive study of the assessment process used in the field of Special Education will be examined to include both standardized assessment measures and curriculum based measures. Emphasis will be on the selection, administration, and analysis of standardized assessment instruments along with the development, administration, and analysis of curriculum based instruments in determining eligibility for placement and instructional planning. *Prerequisite: Undergraduate special education assessment course.*

SPE 6635 Meeting Instructional Needs Through Technology (3)

This is an advanced survey course in the classroom-adaptable and assistive technologies that are associated with the personal computer and other technologies that assist the learner with disabilities in accessing the teaching and learning environments. This course includes information on the assessment of assistive technology needs as a means of considering assistive technology and matching adaptations with individual-needs in various settings. The student will explore ways to make instruction more meaningful for learning. Study will also focus on familiarity with keyboarding, disk operating systems, and tool software. Proficiency with word processing, database and spreadsheet use in an integrated program is developed. *Prerequisite: An undergraduate course in the integration of technology into the curriculum.*

SPE 6640 Teaching Diverse Learners (3)

The purpose of this course is oriented toward identifying exceptional students and providing appropriate learning experiences in the classroom setting. This course is a survey of the nature and needs of exceptional children and an introduction to their educational programs.

SPE 6694 Collaborative Teacher K-6 Practicum (3)

The practicum is designed to provide a supervised experience related to instruction in

the area(s) of specialization (K-6). The application of skills, concepts, and principles acquired in previous coursework as well as current research will be emphasized.

SPE 6697 Field Based Research Project (3)

The purpose of this course is to provide graduate students with an opportunity to design, implement, and write about quantitative or qualitative research related to their own teaching. This course will be taken at the end of the graduate program of study. *Prerequisites: EDU 6691 and 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 em-

