

ACCOUNTING			ADULT EDUCATION		
ACT	6691	<p>Managerial Accounting (3)</p> <p>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>	ADE	5560	<p>Instructional Systems Development (3)</p> <p>This course emphasizes systematically developed course design. Special attention is given to learning and instructional systems theory.</p>
ACT	6692	<p>Advanced Accounting Problems (3)</p> <p>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>	ADE	6600	<p>Foundations of Adult Education (3)</p> <p>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>
ACT	6694	<p>Income Tax Research (3)</p> <p>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>	ADE	6605	<p>Computer Based Instructional Technologies (3)</p> <p>This graduate level advanced survey course</p>
ACT	6695	<p>Accounting Research and Communication (3)</p> <p>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)</p> <p>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)</p> <p>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)</p> <p>A study of the recent growth of accounting theory, as influenced by regulatory agencies, economic conditions, and professional accounting organizations.</p>			

- ADE 6620 Seminar in Communication and Human Relations (3)**
An investigation of literature and research related to verbal and nonverbal communication, listening, and human relations appropriate to adult education.
- ADE 6630 Programs for Adult Education (3)**
A study of current concepts and objectives of adult education programs, courses and activities. Includes study of adult education programs and agencies serving diverse adult learners.
- ADE 6653 Educational Evaluation (3)**
The course presents basic procedures used in evaluation. A major focus is on planning and constructing teacher-made tests and non-test evaluation techniques. Also includes study of a variety of standardized tests.
- ADE 6670 Psychological Foundations of the Adult Learner (3)**
An in-depth study of research findings and philosophical concepts related to the nature of adult learners and learning process; principles of motivation and effective instructional design geared toward adult learners; and social and cultural influences on adult learning. Emphasis will be given to the understanding of critical and variable attributes of adult learners.
- ADE 6674 Methods and Strategies for Teaching Adults (3)**
A study of methods and formats used in organizing educational materials for adult learners. Emphasis is given to designing effective instruction which matches methods and strategies to educational demands.

requisites: general biology, general ecology.
Corequisite: BIO L545.

- BIO L545 Ichthyology Lab (1)**
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,

aquatic insects. *Prerequisites: general biology, general ecology. Corequisite: BIO L600.*

- BIO L600 Aquatic Entomology Lab (1)**
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)**
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)**

supplies, global warming and effects on biological diversity, sustainable fisheries, forest products and services, and other issues. *Prerequisites: none.*

BIO 6670, 6671 Special Topics (1-4)

Specialized topics not generally included in course offerings. A maximum total of 4 semester hours is allowed for program credit.

BUSINESS

BUS 6610 Business Research Design (3)

Designed for the student to develop and demonstrate competency in business research methodology and techniques. This course teaches the MSM or MSHRM student proper research techniques and includes a research proposal. (A grade of "B" or better is required)

BUS 6612 Applied Business Research (3)

The study of applied research of business problems to develop managerial skills in the preparation and evaluation of a research project. (A grade of "B" or better is required)

CHEMISTRY

CHM 5500 Special Topics in Chemistry (3)

A study of topics of special interest, such as advanced physical chemistry, advanced analytical chemistry, advanced organic, group theory, surface chemistry, and colloid chemistry. *Prerequisites: CHM 2242 and CHM 3343.*

CHM 5503 Advanced Organic Chemistry (3)

A more in-depth study of many of the topics studied in Organic Chemistry I and II. Topics will include reaction mechanisms, synthetic methods, and structure determination using spectroscopic techniques. *Prerequisite: CHM 3357.*

CHM 5544 Advanced Inorganic Chemistry (3)

This course covers the spectroscopy of inorganic molecules, detailed molecular orbital applications, descriptive chemistry of the transition elements, including organometallics and bioorganic compounds. *Prerequisites: CHM 2242, 5552 and L552.*

modern operating systems such as Windows and Unix are presented. *Prerequisite: CS 3323*

CS 6625, 6626, 6627 Specialized Study in Computer Science (1-3)

This course involves the study of a problem or problems using research techniques. Selection of a problem is to be approved by the

- CS 6653 Topics in Software Security and Reliability (3)**
This course discusses Software Quality, Fundamentals of Reliability and Rates of Failure, Fundamentals of Data and Distribution, Reliability Testing, Software Growth Models, Software Security and Safety Fundamentals, Software Testing and Stopping

campus group supervision designed to provide opportunity for analysis and evaluation of supervised activity. *Prerequisites: Permission of instructor and department chair required. CP 6600, CP 6610, CP 6642, CP 6649, PSY 6669, PSY 6670*

- CP 6651 Counseling Diverse Populations (3)**
A study of the psychological and sociological factors relative to cultural diversity. Special emphasis is placed on current practices utilized in counseling interventions with culturally diverse populations. Special emphasis is placed on current practices utilized in counseling interventions with diverse populations as well as increasing counselor sensitivity to the unique needs and experiences of such populations. 7.1(6) hours
- CP 6652 Rehabilitation Delivery and Process (3)**
A study of the rehabilitation process including historical developments, philosophical bases, and legal aspects, with an emphasis on the operational aspects of rehabilitation service delivery systems.
- CP 6656 Marriage, Family, and Sex Therapy Counseling (3)**
The course is designed to provide the student with a conceptual framework for dealing with marriage and family problems. Students will be equipped with the skills necessary for working with all members of the family.
- thualTJctosIntern
- CP 6657 Internship: School Counseling (3)**
This course provides supervised school based experience at both the elementary and secondary levels. The school-based experience will be accompanied by scheduled on-campus supervision with the university supervisor. Course equals 300 hours of internship. Internship equals 300 clock hours, to include 120 hours of direct student service. *Prerequisite: CP 6650.*
- CP 6658 Internship: School Counseling (3)**
This course provides supervised school-based experience at both the elementary and secondary levels. The school-based experience will be accompanied by scheduled on-campus supervision with the university supervisor. Internship equals 300 clock hours, to include 120 hours of direct student service. *Prerequisite: CP 6657*
- CP 6659 Internship: Mental Health (3)**
This course provides an opportunity for the student to perform under supervision a variety of activities that a regularly employed professional counselor in an agency setting wo06 T-1.1533o1533o153pnywnce wilqual(ct)06 4(m)4m 0 3o153ETJ0 l beTJ00 -1.153-9.050 TTD0.0013 Tc-0.229 Tw421tyaree

- 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,*

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, 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,

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ensure field experience is acquired in the areas of curriculum, instruction, student services, leadership skills, staff development, school and community relations, management skills, and legal responsibilities. Competencies to be addressed are taken from the Alabama State Department of Education Administrative Code. Internship requires a minimum of 300 clock hours and must be completed at the home campus (*Prerequisite: EAL 6663 and have permission of the Department*). There must be a minimum of six months from beginning EAL 6663 and the completion of this course.

EAL 6684 Curriculum Development for Educational Leaders (3)

This course prepares school administrators to provide leadership necessary to ensure appropriate curricula for the schools and for effective teaching and learning. Students will examine the curriculum design, development, implementation, and evaluation cycle. *Prerequisite: Restricted to students who are admitted to an NCATE approved EAL Certification program.*

EAL 6691 Research Methodology (3)

This course is a study and evaluation of a variety of research methods; including but not limited to quantitative, qualitative, and action research, and reporting formats used in education and the social sciences. *Restricted to students who are admitted to an NCATE approved EAL Certification program.* A grade of "B" or better is required.

EAL 7701 Administration of Special Education (3)

This course is designed to provide an in-depth overview of the administrative organization that supports effective special education programs in diverse educational settings. The purpose of the course is to provide a comprehensive guide to the special education process while addressing current issues, trends, technology, research, literature, problems, legal principles, and concerns. The course is designed to provide the school leader with the knowledge base to make informed, reflective special education decisions. Class A Certification in Educational Administration is required.

EAL 7705 School Finance and Taxation (3)

A general study of finance at local, state, and federal basis. Includes principles of taxation, the concepts of equity and adequacy, acceptable practices in securing and administering school funds, and acceptable accounting and business procedures. Explores the unique characteristics of the Alabama Tax structure, its history, and impact on the funding of education. Class A Certification in Educational Administration is required. Course must be taught by an individ-

ual who has successfully completed the Finance requirement under Alabama Code (Act 2001-706, Section 16-1-38).

EAL 7710 Supervision of Education (3)

A development of the concept of supervision and its function in the school program. The techniques of supervision are studied and related to the improvement of instruction. Class A Certification in Educational Administration is required.

EAL 7714 School Law (3)

A study of school law as set forth in the common law, state and federal constitution, statutes, judicial decision, and in the rules and regulations of the state of Alabama. Major emphasis will be on state and federal law and its impact on education today. Class A Certification in Educational Administration is required. Course must be taught by an individual who has successfully completed the Law requirement under Alabama Code (Act 2001-706, Section 16-1-38).

EAL 7717 Mentoring Methods and Techniques (3)

The purpose of this course is to prepare educational leaders to serve as role models

- 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 evaluation. Also included are motivational principles, group dynamics, climate and culture, as well as problems typically associated with personnel. Class A Certification in Educational Administration is required.
- EAL 7758 Cultural Diversity (3)**
This course provides in-class and field experiences for specialist students in the investigation of current diversity, multicultural and pluralistic literature and in the identification and creation of organizational patterns/designs, which support both short-and long-range multicultural and diversity school goal setting. Students will learn competencies that are instrumental to planning, implementing, assessing, and re-evaluating existing or proposed practices. Activities are designed to appraise and evaluate diversity data, coordinate and synthesize curriculum development, utilize appropriate instructional designs including

mary 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 AND BIOLOGICAL SCIENCES

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| EBS | 5513 | <p>Limnology (3)
The physical, chemical, geological, and biological aspects of freshwater ecosystems as influenced by activities in surrounding watersheds. <i>Prerequisites: general biology, general EBS L513.</i></p> |
| EBS | L513 | <p>Limnology Lab (1)
Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. <i>Corequisite: EBS 5513.</i></p> |
| EBS | 5516 | <p>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. <i>Prerequisites: microbiology, organic chemistry. Corequisite: EBS L516.</i></p> |
| EBS | L516 | <p>Environmental Microbiology Lab (1)
Environmental microbiological laboratory techniques including isolation, identification, and enumeration of microorganisms from aquatic and terrestrial environments. <i>Corequisite: EBS 5516.</i></p> |

studies. *Prerequisite: permission of instructor.*

- EBS 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.*
- EBS 5576 Special Topics (1 to 4 credit hours per course per semester)**
 Specialized topics not generally included in course offerings. *Prerequisite: Permission of instructor.*
- EBS 5578 Cell Biology (3)**
 This course covers cell structure and function with the emphasis on biochemical and molecular mechanisms. Topics include cell division, movement, differentiation, and recognition. *Prerequisites: genetics, microbiology, organic chemistry. Corequisite: EBS L578.*
- EBS L578 Cell Biology Lab (1)**
 Experimental approaches for studying cells at the biochemical and molecular levels. *Corequisite: EBS 5578.*
- EBS 5582 Molecular Biology (3)**
 A study of the fundamental principles of chromosomal organization and gene expression, with emphasis on the structure and function of nucleic acids and proteins. *Prerequisites: genetics, microbiology, organic chemistry. Corequisite: EBS L582.*
- EBS L582 Molecular Biology Lab (1)**
 Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings. *Corequisite: EBS 5582.*
- EBS 6600 Aquatic Entomology (3)**
 A study of the morphology, physiology, taxonomy, life histories, and ecology of aquatic insects. *Prerequisites: general biology, general ecology. Corequisite: EBS L600.*
- EBS L600 Aquatic Entomology Lab (1)**
 Classification and identification of immature and adult aquatic insects. A collection is required. *Corequisite: EBS 6600.Ex6 Tm0 Tc0 Tw()Tal 0Tc()T7-9.7267 -1. is EBS1 Environ6.2telyiology (3)*

EBS 6620 Field Protistology (4)
An advanced study of protists from freshwater and marine habitats including collection

COURSE DESCRIPTIONS · 166

focuses on the applications of ecology, population biology, and genetics of the conservation of keystone and rare species and ecosystems. *Prerequisite: an undergraduate*

tionship while developing mutual supporters for the total development of the young child. Pertinent topics include: stress and children, parents and families in crisis, and helping children cope with the future.

ECE 6625, 6626, 6627 Specialized Study in Early Childhood 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. See semester hour limits listed under Course Restrictions in General Regulations section.

ECE 6628 Inquiries into Literacy Acquisition (3)

This course is designed to explore emergent literacy and the role of developmentally appropriate practices for young children, N-3. The course includes emphasis on: role of the teacher and teaching reading to young children, children and multiple learning styles, the reading process, and developing a developmentally appropriate reading program for young children, N-3.

ECE 6630 Inquiries into Representation (3)

This course is designed to assist graduate students as they investigate and construct knowledge of symbolic representation in all of its form. Topics include: children's talk, play, art, writing process, music, movement and construction.

ECE 6631 Historical Perspectives in Early Childhood Education (3)

The purpose of this course is to assist graduate students in constructing a sense of identity with the field of early childhood education through an understanding of the past as a prologue to contemporary thought and practice. The philosophy, history, and impact of education from the time of Plato to the present will be examined with special emphasis on the major influences in early childhood education.

ECE 6632 Authentic Assessment in the Early Childhood Classroom (3)

The purpose of this course is to explore the investigation and evaluation of teaching and learning in the early childhood education program through the use of human and material resources. Purposes, types, and designs for developmentally appropriate evaluation will be examined.

ECE 6633 Integrated Thematic Curriculum (3)

The purpose of this course is to assist graduate students as they construct an operational knowledge of integrated thematic curriculum. The course will focus on theory, planning, implementation, and evaluation of an integrated thematic curriculum. Additionally, issues surrounding the implementation of innovative teaching methodology in traditional settings will be examined.

niques. Selection of problem must be approved by the professor under whom the study is to be made, and the Dean of Education. The study should contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed four semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.

ECE 7760 Leading for Learning in the School Environment (3)

This course is designed to extend the teacher leader from the classroom to the school environment. Students will be provided a study of the processes involved in evaluating school settings and the problems faced by instructional leaders. Major emphasis will be placed on the transition to a teacher leading in the school environment. Characteristics of leading for learning will be explored. Topics that affect today's teacher leaders and positive ways to deal with instructional issues will also be investigated.

ECE 7761 Effective Schools and Teachers (3)

This course is designed to examine the knowledge base for effective schools to enable teacher leaders to develop skills in their own practices. There will be emphasis through in-depth study of the research literature on effective school settings. Students will critically examine, analyze, and evaluate the components and characteristics of effective school environments.

ECE 7762 School Accreditation Process (3)

The purpose of this course is to examine the local, state, regional, and national standards associated with school accreditation. The accreditation process in these areas will be reviewed and analyzed. Students will compare and contrast the different ways schools are accredited. Topics such as: the accreditation process, school self-study procedures, validation/documentation, roles of school personnel, and creating school improvement plans will be investigated.

ECE 7763 Legal Issues and Ethics in Education (3)

The purpose of this course is to allow educational leaders to explore the organizational development and maintenance services required for effective operation of the schools within the legal framework established by local, state, and federal legislative and judicial requirements. Major emphasis will be given to studying legal issues and community relations. Legal issues and services related to exceptional children will be closely examined. The development of ethi-

cal standards, informed legal decision making, and emergency procedures for ensuring safety, as well as the political factors which impact schools, society and community relations will be studied.

ECE 7790 Qualitative Research Methodology (3)

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

ECE 7793 Problem Analysis in ECE (3)

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

ECONOMICS

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GIFTED EDUCATION

- EDG 6666 Nature and Needs of Gifted Individuals (3)**
 This foundation course in the study of gifted education and talent development focuses on understanding gifted individuals, assessment and identification issues in finding gifted students in the schools, models often used to provide education for gifted students and developing support systems for programs for gifted learners.
- EDG 6667 Creativity (3)**
 This course in creative thinking in gifted education focuses on understanding creativity and creative students. This course emphasizes the importance of helping children and adolescents become more self-actualized, creative individuals to better enable them to make important contributions to society. *Prerequisite: EDG 6666 Nature and Needs of Gifted Individuals*
- EDG 6668 Integrating Thinking Skills into the Curriculum (3)**
 The focus of this course is the integration of critical and productive thinking skills into the curriculum for gifted learners. This course emphasizes an inquiry-based approach to differentiation of the curriculum content for gifted learners. *Prerequisite: EDG 6666 Nature and Needs of Gifted Individuals.*
- EDG 6669 Teaching Methods in Gifted Education (3)**
 This methods course in curriculum development in gifted education focuses on planning, designing, and developing appropriate curriculum for gifted students. This course emphasizes the connection between the needs of gifted learners and the cognitive, affective, social, and aesthetic areas of curriculum experiences. *Prerequisites: EDG 6666 Nature and Needs of Gifted Individuals, EDG 6667 Creativity, and EDG 6668 Integrating Thinking Skills into the Curriculum.*
- EDG 6670 Special Populations of Gifted Students (3)**
 This course examines ways in which teach-

produced using multimedia-authoring tools.
Prerequisite: EDU 6606.

EDU 6611 Educational Technology in the Curriculum (3)

The purpose of this course is to advance pre-service and in-service teachers beyond simple computer literacy and basic understanding of Computer-Based Instructional Technologies. It will focus on more advanced educational use of multimedia and Internet based technologies. The student will explore technologies and learning tools that foster a more learner centered constructivist environment within their specific teaching area. Critical issues arising from the integration of these technologies such as development of interactive environments and new modes of communication and subsequent effects on the definition of learning will also be investigated. *Prerequisites: undergraduate or graduate technology course or placement exam.*

EDU 6613 Principles of Instructional Design (3)

This course focuses on the development of instruction by using the instructional design process to develop online or electronic instructional materials. The systematic design of instruction will serve as the foundation for the development of such materials. The students will develop the necessary pedagogical and technological skills that will facilitate the design and development of instruction using the appropriate tools. *Prerequisite EDU 6605.*

EDU 6614 Advanced Instructional Design (3)

This course will further expose students to the pedagogies, design processes, and technology-related tools that will facilitate proficiency in the development of online or electronic instructional materials. Attention will be paid to using advanced tools and techniques to develop strategies and materials that will focus on the cognitive needs of the learner. *Prerequisite EDU 6605.*

EDU 6616 Distance Learning Strategies (3)

A study of various forms of distance learning with emphasis on computer based systems and on-line learning. The course integrates relevant technology including multimedia authoring, web design, and internet delivery systems. The course concentrates on the development of web-based instructional materials and the management of internet-based courses and programs. Stu-

- EDU 6630 Teachers and the Law (3)**
This course is designed to help teachers become legally literate by providing them with information about the law that affects them, how the legal system works, and how that system can work for them.
- EDU 6632 Seminar in Classroom Teaching (2)**
This course is an inter-disciplinary seminar course designed for classroom teachers who desire to investigate in depth the techniques, procedures and strategies related to improving learning through improved teaching.
- EDU 6645 The Nature of Intelligence (3)**
This course provides a description and analysis of the quantitative and qualitative

examined as students read and analyze a variety of studies.

EDU 6699 Research in Practice (3)
The purpose of this course is to provide graduate students with an opportunity to design, implement, and write about quantitative or qualitative research related to their own teaching. *Prerequisite: EDU 6698 or*

- EDU 7764 Models and Strategies for Instruction (3)**
The purpose of this course is to assist education specialist candidates as they explore a variety of instructional models throughout the educational and other learning environments. There will be an emphasis on current research of effective teaching and learning practices. Students will compare and contrast different educational instructional practices and develop set of strategies to enhance the instructional environment.
- EDU 7792 Advanced Research in Education (3)**
This course is designed primarily for students planning to prepare a thesis. Particular attention is given to the research techniques related to the types of thesis study the student desires to undertake. (May carry the prefix appropriate to the program of study i.e. SPE, SED, IED).

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

ELE 6635 Program Evaluation in Elementary Education (3)

This course is designed for the education student to examine evaluation in early childhood and elementary education programs. Techniques and procedures concerning the design and implementation of evaluation in the total school program will be investigated.

ELE 6640 Integrating Children's Literature (3)

The purpose of this course is to assist graduate students as they investigate and construct a deeper understanding of and develop techniques to incorporate quality children's literature across the curriculum. P,l

approaches to increase long-term organizational effectiveness.

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 *Beowulf*, *Piers Plowman*, *Sir Gawain and the Green Knight*, mystery plays, *Le Morte d'Arthur*, and other works.

ENG 5503 English Renaissance Literature (3)
This course covers English prose and poetry of the 16th and early 17th centuries, with emphasis on Sidney, Spenser, Donne, and Jonson.

ENG 5504 Milton (3)
A study of Milton's poetry and major prose.

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ENG 5562 The Arthurian Legend Through the Ages**(3)**

This course will examine the Arthurian legend not only in literary and historical works from its earliest traces in the Middle Ages to the present, but also in archaeology, the visual and decorative arts (especially painting and sculpture), manuscript decoration, film, music, and opera.

ENG 5565 African American Literature (3)

A study of selected works by significant African American writers from the eighteenth century to the present. Works include poetry, (AT.5(er wri) Tw Tw[(kiograEiw[(kl4((-1500 AmEiwd0.8gumen -1.1533 TD0.0002 Tc0.8232 Tc04ENG)-t3(e)57t. Wu)

- ENG 6617 Dramaturgy I (3)**
 A study of selected classical, period, and contemporary plays (list may vary with each offering). Emphasis on dramatic form, historical perspectives, staging, and production.
- ENG 6618 Dramaturgy II (3)**
 Study of additional classical, period, and contemporary plays (list may vary with each offering). Emphasis on dramatic techniques, character development, directing, staging, and production.
- ENG 6620 Seminar in Restoration and 18th Century Literature (3)**
 A study of English prose and poetry in the Restoration and early 18th century, with emphasis on Dryden, Behn, Swift, and Pope.
- ENG 6625-6627 Specialized Study in Area of English (1-4)**
 A study of problem or problems using research techniques. Selection of problem to be approved by student's adviser, instructor under whom study is to be done, and director of graduate studies. Study should contribute to student's program. Preparation of scholarly paper required and may involve oral defense. Total credit for any combination of enrollments in these courses not to exceed four semester hours. A specialized study may be substituted for a required course only one time in student's program. See semester hour limits listed under Course Restrictions in General Regulations section.
- ENG 6630 Survey of SLA for Second Language Teachers (3)**
 SLA is the study of how language, social, and psychological factors influence language learning. A range of SLA topics are addressed from the perspective of language teaching: theories of human learning, theories of language acquisition, learning styles and strategies, communicative competence, cross-linguistic influences, and sociocultural factors.
- ENG 6631 Survey of Sociolinguistics for Second Language Teachers (3)**
 Sociolinguistics is the study of how social, political, and educational factors affect language use. A range of Sociolinguistics topics are addressed from the perspective of language teaching: literacy, world Englishes, language standardization, language variation and change, multilingual education, language planning and policy, group

- ENG 6665 Studies in African American Literature (3)**
A study of major works by African American writers.
- ENG 6670, 6671, 6672 Seminar in Selected Topics (3)**
Maximum of two semesters. Study of topic of special interest and importance which is not covered in regularly offered courses for advanced graduate students. See semester hour limits listed under Course Restrictions in General Regulations section.
- ENG 6680 Thesis Option in Literature (3)**
An advanced study of a problem or issue in literary studies. Selection of topic must be approved by the student's thesis director, who will oversee the project. Final project must demonstrate knowledge of extant criticism on the topic and should contribute to the student's program. Oral defense of the thesis required before final approval. Recommended for students interested in pursuing doctoral work in literature.
- ENG 6691 Research in Education (3)**
Research strategies for English educators and procedures for evaluating the language arts. ENG 6691 is a prerequisite for ENG 6696 Practicum.
- ENG 6696 Practicum in Area of Specialization, English (3)**
Supervised experiences related to instruction in area of specialization. The application of skills, concepts, and principles acquired in previous courses will be emphasized. *Prerequisite: All courses in Teaching Field Component and ENG 6691 must be completed.*

FINANCE

- FIN 6632 Investments (3)**
An introductory investments course which identifies and analyzes various forms of investments (such as corporate bonds, common stock, preferred stock) and government securities (such as bonds, notes and bills). The course also includes discussion of the securities market, brokerage functions, and stock exchanges. Particular emphasis is placed on the selection of securities based on the degree of risk and expected rate of return. *Prerequisite: MBA 6631.*
- FIN 6633 International Finance (3)**
An examination of the foreign exchange market, exchange rate determination, international financial institutions, and the management of the risks associated with international business. *Prerequisite: MBA 6631.*
- FIN 6634 Derivative Securities (3)**
A study of options and futures markets, with emphasis on the nature of speculative transactions, pricing, and method of trading. *Prerequisite: MBA 6631.*
- FIN 6651 Financial Institutions (3)**
A comprehensive graduate study of financial markets and institutions. *Prerequisite: MBA 6631*
- FIN 6652 Problems in Financial Management (3)**
Case discussions used to examine a broad range corporate finance issues and decisions. Topics include forecasting financial statements, capital budgeting, risk and return, estimation of capital costs, working capital

HEA 6696 Practicum in Higher Education (1-3)
The Practicum is a supervised application of the concepts, principles, and skills acquired

- 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, the 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 Alabama (3)**
Study of the history of civil rights in Alabama beginning with the Reconstruction period and progressing through significant events and developments to the present. Course emphasis also will include legal developments and important personalities.
- HIS 5541 American Constitutional Development (3)**
American constitutional system with emphasis upon its origin and evolution via amendments and Supreme Court decisions. Note: May be used for political science credit.
- HIS 5542 Renaissance and Reformation (3)**
Historical review of the transitional centuries bridging the medieval and the modern eras, including the rebirth of art and literature, the Protestant and Catholic reform movements, and the role of kings and states.
- HIS 5543 Age of Absolutism (3)**
Survey of political and religious controversies that shaped affairs in Europe during the 16th and 17th centuries, emphasizing the flowering of monarchy and aristocracy.
- HIS 5544 Age of Reason (3)**
Survey of European history in the 18th century, emphasizing the cataclysmic developments in scientific, political, humanitarian, and economic thought that prepared the way for the rise of democracy in both the old and the new world.
- HIS 5545 History of Modern Germany (3)**
Survey of Germanic peoples from the Revolutions of 1848 to the present, emphasizing unification, two world wars, postwar division, and reunification.
- HIS 5548 Westward Movement (3)**
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tance, which is generally not covered in regularly offered courses by the department. See semester hour limits listed under Course Restrictions in General Regulations section.

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| HIS | 6600 | <p>Problems in 19TH Century American Thought (3)
Concentrated study of the history of ideas in the United States from 1800 to 1900. On demand.</p> | HIS | 6613 | <p>Seminar in Modern Britain (3)
A topical analysis of political and social issues in modern British history. On demand.</p> |
| HIS | 6602 | <p>Problems in 20TH Century American Thought (3)
Concentrated study of the history of ideas in the United States, 1900 to present. On demand.</p> | HIS | 6614 | <p>Contemporary Japan (3)
Study and analysis of Japan from the Meiji reforms to the present; Japan's impact on Asia and the rest of the globe; two world wars, the occupation and U.S. administration; internal changes and resurgence as a world power; the impact of Japan's domestic and foreign policies on other countries; Japan in international activities and as a regional model.</p> |
| HIS | 6603 | <p>Seminar in 18TH Century American Thought (3)
An exploration of major historical works and historiographical controversies in 18th century United States. On demand.</p> | HIS | 6615 | <p>Seminar in Latin American History (3)
Concentrated study in specialized areas with emphasis on 20th century history. <i>Prerequisite: HIS 5583 or permission of instructor.</i></p> |
| HIS | 6604 | <p>Seminar in Modern France (3)
The evolution of France from the formation of the Third Republic to the present.</p> | HIS | 6619 | <p>History of Victorian Britain (3)
Examination of constitutional, political, economic, and intellectual history of Victorian Britain.</p> |
| HIS | 6607 | <p>Issues in International Affairs (3)
With directed reading and periodic discussion sessions, this course serves to expand the student's knowledge of current issues in the global setting. Formerly called COLLOQUIUM IN WORLD HISTORY, the course will emphasize recent scholarship and interpretations.</p> | | | |
| HIS | 6608 | <p>Colloquium in American History (3)
A course for advanced graduate students that surveys recent trends in the interpretation, writing, and teaching of American history. Emphasis on reading and discussion of selected recent works in the field with the aim of updating professional competence.</p> | | | |
| HIS | 6609 | <p>Seminar in Early Modern Europe (3)
An analysis of the historical developments and controversies of early modern Europe. On demand.</p> | | | |
| HIS | 6610 | <p>Seminar in Comparative Revolutions (3)
An examination of background, outbreak, development, and conclusion of the American, French, Russian, and other revolutions. On demand.</p> | | | |
| HIS | 6611 | <p>Seminar in Modern Europe (3)
An analysis of the major historical developments and controversies in 19th century Europe. On demand.</p> | | | |
| HIS | 6612 | <p>Seminar in Contemporary Europe (3)
An analysis of major historical developments and controversies in 20th century Europe. On demand.</p> | | | |

Studies. The study should contribute to the

cises 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.

HEALTH SERVICES ADMINISTRATION

- HSA 6680 Health Services Administration and Policy (3)**
 The course focuses on the unique characteristics of the U.S. health care delivery system; acquaints students with increased understanding of the context of health services administration and health care policy; and examines key factors and forces impacting total health system performance in the United States.
- HSA 6681 Legal and Social Issues in Health Administration (3)**
 This course includes an examination of legal and ethical aspects of contemporary issues associated with the health services administration process.
- HSA 6682 Health Care Planning and Management (3)**
 This course stresses application of traditional management concepts to a variety of health service operational issues, analyzes similarities and differences in management of health service organization (HSO) and other organizational models, formulates new organizational designs and management practices appropriate to current HSO environments, and evaluates adequacy of new models.
- HSA 6683 Health Care Economics (3)**
 This course stresses economic analysis applied to the health services sector.
- HSA 6684 Managed Care: Origins, Organizations, and Operations (3)**
 Covers managed care programs, structures, practice models, role of physicians and other clinicians, capitation, cost-accounting and forms of reimbursement.

INTERDISCIPLINARY EDUCATION

- IED 5544 Internship Seminar (3)**
 This course provides interns an opportunity to develop analytical thinking skills through examining broad educational issues and

COURSE DESCRIPTIONS · 188

- IR 5524 Contemporary American Foreign Policy (3)**
This course examines the foreign policies processes of the United States: historical traditions, political institutions, economic and military capabilities, the Congress, the Presidency, interest groups, the media, and public opinion.
- IR 5533 Comparative Government (3)**

- IR 6631 Intercultural Relations (3)**
An analysis of the influence of culture on interstate relations including theories, concepts, and applications.
- IR 6633 Developed and Developing Nations (3)**
An analysis of the systemic linkages between advanced, emerging and weak states; focus will be on the political, economic, and cultural issues relevant to the international relations of those states within both a regional and global context.
- IR 6634 Tradition, Revolution, and Change (3)**
This course represents an interdisciplinary, cross cultural approach to the study of comparative cultural change and its impact on the international system. It examines the origins, processes, and outcomes of sociopolitical change within various nations and states.
- IR 6635 National Security Policy (3)**
An examination of the structures, motivations, and major objectives of national security policymaking from a comparative perspective with particular emphasis on the politics of national defense in the United States.
- IR 6640 Government and Politics of Developing Nations (3)**
An analysis of the modernization of developing states from a political, economic, social, and cultural perspective. Major strategies pursued by developing states for their growth and development will be discussed, including those shared by developing states which have a significant effect on the political and economic interaction between the developing and developed worlds.
- IR 6641 Latin America in World Affairs (3)**
An examination of Latin American politics, legal systems, economics, culture, military power, geography, and their impact on Latin American regional relations and linkages to the world system.
- IR 6642 Russia and Eastern Europe in World Affairs (3)**
An examination of Russia and Eastern Europe's politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.
- IR 6644 Middle East in World Affairs (3)**
An examination of Middle East politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.
- IR 6645 Asia in World Affairs (3)**
An examination of Asian politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.
- IR 6647 Western Europe in World Affairs (3)**
An examination of Western European politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.

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

communicate to both internal and external audiences, to conduct meetings, to negotiate, and to resolve conflict. Emphasis is placed on oral and written presentation skills using state-of-the-art technologies and presentation software.

MBA 6631 Managerial Finance (3)
A comprehensive and advanced study of

MBA 6608, 6609 Thesis (3)

Information regarding the thesis program can be obtained from the dean of the College of Business or branch director.

MBA 6610 Business Research Design (3)

Designed for the student to develop and demonstrate competency in business research methodology and techniques. This course teaches the MBA student proper research techniques and includes a research proposal. A grade of "B" or better is required. *Prerequisite: MBA 5505 or equivalent.*

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. *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.* Students should be in the last term of their program when completing this course.

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.

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

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

MATHEMATICS

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

- MTH 5512 Discrete Mathematics (3)**
This course covers sets, relations, functions, counting, algorithms, Boolean algebra, and graphs.
- MTH 5522 Numerical Analysis (3)**
This course covers topics including finite differences, interpolation, numerical integration and differentiation, solutions of equations of one variable, linear systems, and numerical solutions of ordinary differential equations.
- MTH 5524 Real Analysis I (3)**
A study of the real number system, completeness, limits, continuity, sequences, differentiation, and the Riemann integral.
- MTH 5525 Real Analysis II (3)**
A study of sequences and series of functions, series, and a continuation of the integral to include the Fundamental Theorem of Calculus. *Prerequisite: MTH 4424 or MTH 5524.*
- MTH 5526 Complex Analysis (3)**
A study of complex numbers, elementary functions and their mappings, complex limits and power series, analytic functions, integrals, contour integral, and Cauchy integral formula.
- MTH 5536 Number Theory (3)**
This course covers divisibility, congruences, prime numbers, Fermat's theorem, Dio-

- MTH 6616 Mathematical Models (3)**
An introduction to the modeling process. Students will practice creative and empirical model constructions, analyze models and do independent model research. Application using paired data will be included.
- MTH 6620 Advanced Concepts of Algebra (3)**
This course covers topics including rings and fields, polynomial rings and factorization, and Galois theory. *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.
- MTH 6624 Applied Combinatorics (3)**
A study of generating functions, Inclusion-Exclusion, Burnside's Theorem and Polya's Enumeration Formula.
- MTH 6625, 6626, 6627 Specialized Study in Area of Mathematics (3)**
A study of a problem or problems using research techniques. Selection of problem must be approved by student's adviser, instructor under whom the study is to be made, and the appropriate director of the Graduate School or Dean of Arts and Sciences. *Note: Total credit for any combination of enrollments in these courses may not exceed six semester hours. See semester hour limits listed under Course Restrictions in General Regulations section.*
- MTH 6632 Non-Euclidean Geometry (3)**
A study of non-Euclidean geometries with

COURSE DESCRIPTIONS · 196

5524/6624	Trombone
5525/6645	Euphonium
5526/6646	Tuba
5527/6647	Percussion
5528	Guitar

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

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

to take two hours of performance instruction.

- 6614 Piano
- 6615 Organ
- 6616 Voice
- 6617 Clarinet
- 6618 Oboe
- 6619 Flute
- 6620 Bassoon
- 6621 Saxophone
- 6622 Trumpet
- 6623 Horn
- 6624 Trombone
- 6645 Euphonium
- 6646 Tuba
- 6647 Percussion

- MUS 6625, 6626, 6627 Specialized Study in Area of Music (1- 3 credit hours per course)**
 A study of a problem or problems using research techniques. Selection of problems must be approved by the student's adviser, instructor under whom the study is to be made, and the appropriate Director of the Graduate School. Study should contribute to student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.
- MUS 6631 Advanced Conducting I (3)**
 A study and conducting of a sequence of music which provides opportunities for appropriate skill development. Students will be evaluated and assigned materials suitable for their area of specialization. Choral students will work individually with the Director of Choral Activities, and instrumental students will work individually with the Director of Bands in addition to regular class lectures.
- MUS 6632 Advanced Conducting II (3)**
 Selection, study, and conducting of specific repertoire in preparation for an individual conducting recital (MUS 6633). Individualized study and research of a coherent group of compositions appropriate for a performance. Choral students will work individually with the Director of Choral Activities, and instrumental students will work individually with the Director of Bands in addition to regular class lectures.
- MUS 6633 Conducting Recital (1)**
 Graduate students in conducting, upon com-

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

- MUS 6635 Pedagogy of Music History, Theory and Musicianship (3)**
 A study relating musical historical and theoretical concepts to the secondary school performance and general music class. Consideration of separate music theory and appreciation classes as secondary level subjects. Study of the concept of comprehensive musicianship as a point of departure for the modern music education curriculum.
- MUS 6636 Conducting and Score Analysis Techniques (3)**
 A concentrated study of conducting patterns, gestures, and techniques. Score study through the coordinated application of music theory and history. Special emphasis will be placed on interpretation and the development of aural analysis skills.
- MUS 6637 The Heritage of the March (3)**
 A historical and analytical survey of marches for the concert band. Marches for groups of all ability levels will be presented and discussed. Performance, listening and historical background will be included.
- MUS 6650 Band Adjudication (3)**
 An intensive study of concert, marching, jazz band, and solo-ensemble adjudication and the requirements leading to certification.
- MUS 6662 Advanced Instrumental Arranging (3)**
 A study of advanced arranging and scoring concepts for instrumental ensembles. Study of contemporary harmony, voicing, scoring methods, and their applications to various ensemble groupings.
- MUS 6670 Practical Band Instrument Repair (3)**
 This course covers the maintenance, repair and supervision of equipment used by modern music educators. Exploration of industry guidelines and evaluation of financial restraints on music programs. System and rationale for evaluating equipment will be developed.
- MUS 6691 Research and Evaluation in Music Education (3)**
 A study and evaluation of a variety of research methods, types of reporting, analysis of standardized tests and construction of

teacher-made tests. Requi

**NSG 6620 Advanced Acute Care Nursing of Adults
(2)**

COURSE DESCRIPTIONS - 200

*Prerequisites: NSG 6640, 6641. Corequi-
sites: NSG 6643, 6649. F*

**NSG 6643 High-Risk Maternal/Infant Health Nurs-
ing Preceptorship (3/9)**

area of interest utilizing research-based inquiry.

PA 6694 Internship (3)
A practical learning experience in a public

- POL 5523 U.S. Diplomatic History (3)**
Study of factors, forces, and functions in making of American foreign policy. Includes description and analysis of principal developments in U.S. and interactions with other countries from 1760s to 1941.
- POL 5524 Contemporary American Foreign Policy (3)**
Analysis of American role in the world since Pearl Harbor, nature and significance of current American foreign policy, rationales and suggested alternatives, and policy-making process.
- POL 5533 Comparative Government (3)**
Comparative analysis of major world power governments with emphasis upon comprehension of differences which lead to international tensions.
- POL 5551 International Relations (3)**
Analysis of contemporary world politics, including structures and processes through which states interact, power politics, geopolitics, regional alliances, and psychological warfare.
- POL 6625, 6626, 6627 Specialized Study in Area of Political Science (1-4)**
Study of problem or problems using research techniques. Selection of problem must be approved by student's adviser, professor under whom study is to be made, and Dean of the Graduate School. Study should contribute to student's program. Preparation of scholarly paper required and may involve oral defense. Total credit for any combination of enrollments in these courses is not to exceed four semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.
- POL 6640 Government and Politics of the Third World (3)**
Variable course wherein students examine political and governmental structures and developing institutions of major states of selected regions of the world. Some examples: Africa, East Asia, Latin America, Oceania, and South Asia.
- POL 6642 Government and Politics of Eastern Europe (3)**
Study of human and material factors leading to the rise and fall of the commonwealth of socialist nations of Eastern Europe previously dominated by USSR. Examination of unprecedented reconfiguration of forces brought about by *perestroika* and *glasnost*.

- POL 6644 Government and Politics of the Middle East (3)**
Study of human and material factors contributing to domestic and external politics of Middle East, structure and process of government in key states in area, and current political situation in Middle East and its influence on global politics.
- POL 6665 Reading in International Relations (3)**
Guided program of reading and study of international relations. Should be related to student's needs and have approval of adviser. See semester hour limits listed under Course Restrictions in General Regulations section.

POST SECONDARY EDUCATION

- PSE 6606 Current and Emerging Instructional Technologies (3)**
This course focuses on current and emerging instructional technologies. The emphasis of this class is on the instructional use of production software, desktop publishing, graphics, hypermedia, on-line services, optical technology, and telecommunications. *Prerequisite: PSE 6605 or permission of instructor.*
- PSE 6608 Curriculum Integration of Technology (3)**
The purpose of this course is to prepare students to apply knowledge and competency in instructional technologies in relation to curriculum design, diverse models, and teaching situations at all developmental levels. Included is evaluation of software, audio/visual production, and instructional design using technology as a basis for instruction.
- PSE 6612 Community Junior College (3)**
This course covers the rise and development of the community or junior college in American education, its philosophy and functions with specific attention to the transfer, terminal, and community service functions. Problems of organization, curriculum construction, staffing and instructional procedures are stressed.
- PSE 6615 Social and Philosophical Foundations of Education (3)**
This course provides an exploration of societal structures and problems and their interrelationship with education. It also provides an overview of philosophies and educational theories.
- PSE 6642 History of Education (3)**
A consideration of the development of educational ideas and institutions from ancient times to the present. Emphasis placed on Western Europe and the United States.

- PSE 6651 Comparative Education (3)**
This course is a comparative in-depth study of representative school systems in the world. Particular attention is given to comparison of merits and issues of the systems in terms of governance and structure of education as well as an exploration of the best educational practice that can be learned from each.
- PSE 6653 Educational Evaluation (3)**
The course presents basic procedures used in evaluation. A major focus is on planning and constructing teacher-made tests and non-test evaluation techniques. Also includes study of a variety of standardized tests.
- PSE 6658 Understanding Cultural Diversity (3)**
The focus of this course is on understanding culturally different students, the psychological and sociological factors that influence the teaching or training.
- PSE 6660 Trends and Issues in Adult Education (3)**
This course focuses on current trends in adult education. It includes a comprehensive investigation of current issues in adult education and an examination of how historical events and ideas have influenced those issues and trends. Special emphasis will be given to the analysis of trends and issues and formation of judgments based on supportable information.
- PSE 6665 Field Project in Post Secondary Education (3)**
This course helps students make connections between theoretical knowledge and practical situations. The content of this course is variable, depending on the individual student's interests, present situation, and future plans. The determination of the content for each student will be made through collaboration between the student, the student's adviser, and the instructor of the course. Students may focus on supervised teaching, action research, or a project with a major field agency. Prerequisites: This course is open only to students enrolled in the Masters of Science in Post Secondary Education program who have completed 18 hours of coursework including the research class.
- PSE 6670 Psychological Foundations of the Adult Learner (3)**
An in-depth study of research findings and psychological concepts related to the nature of adult learners and learning processes; principles of motivation, effective instructional design geared toward adult learners; and social and cultural influences on adult learning. Emphasis will be given to the understanding of critical and variable attributes of adult learners.
- PSE 6680 Curriculum Development for Adult Education (3)**
A study of concepts, learning theories, materials, and media related to curriculum and program development in adult education.
- PSE 6691 Research Methodology (3)**
The study and evaluation of research methods commonly used in the social sciences. The course will provide information necessary to understand and apply research processes, synthesize knowledge and writing, and plan and organize research problems for interpretation and application of research results. Application of these skills in the form of a written project using the Publication Manual of the American Psychological Association (APA) is required. A grade of "B" or better is required.
- PSE 6694 Special Problems in Adult Education (1-3)**
The study of problem or problems using research techniques. Selection of problem to be approved by student's adviser and instructor under whom study is to be made. Study should contribute to student's program. Preparation of scholarly paper or project required and may involve oral defense.
- PSE 6695 Thesis (3-6)**
The thesis must be related to both the students' concentration area and post secondary education. Information regarding thesis guidelines and requirements may be obtained from the Graduate School office.
- PSE 6696, 6697, 6698 Practicum in Area Post Secondary Education (1-3)**

PSYCHOLOGY

- PSY 5501 Psychological Tests and Measurements (3)**
The selection, evaluation, administration, scoring, interpretation and use of tests of intelligence, proficiency, interests, personality, aptitude and social adjustment. *Prerequisite: Graduate standing.*
- PSY 5520 Physiological Dynamics of Alcohol and Other Drugs (3)**
A study of physiological and psychological dynamics and resultant behavioral implications in use of alcohol and other drugs. Based on assessment of dynamics and behavior and application of diagnostic procedures using appropriate manuals and materials.
- PSY 5556 Gerontology (3)**
The study of aging. Emphasis on biomedical, psychological, and social aspects of middle and late adulthood.
- PSY 5559 Applied Behavior Analysis (3)**
Training and experience in design, execution, and evaluation of behavior modification programs for professionals in fields of counseling, education, rehabilitation and psychology. Provides study of key concepts of classical and operant conditioning, as well as discussion and application of specific strategies building on conditioning principles.
- PSY 6606 Interventions for Children and Adolescents (3)**
This course examines the behavioral characteristics of children and adolescents including their emotional, social, and cognitive behaviors. Emphasizes intervention, assessment, diagnoses, teaching, and prevention.
- PSY 6613 Objective Personality Assessment (3)**
An introduction to objective personality assessment. The student will learn basic administration, scoring procedures, and utilization of assessment results in clinical practice for various objective personality and temperament measures. Application of objective personality instruments and computer scoring will be explored. *Prerequisites: PSY 6645 or similar graduate course; PSY 6669 or similar graduate course.*
- PSY 6625, 6626, 6627 Specialized Study in Psychology (1-3)**
A study of a problem or topic using research techniques or a guided program of readings.

- 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, PSY 5501, or permission of instructor.*
- PSY 6648 Theories of Personality (3)**
A critical analysis of major theories and systems of personality.
- PSY 6650 Practicum: Psychometry (3)**
This course provides field supervised experiences preparatory to the Internship in School Psychometry/School Psychology. At least 100 hours of prescribed experiences in school psychometry/psychology must be completed at approved schools (K-12) and must be supervised by an approved school psychometrist or school psychologist. *Prerequisites: PSY 6636 and PSY 6637.*
- PSY 6653 Measurement and Evaluation (3)**
A study of basic statistical processes and measures used in education, counseling, and psychology. Analysis of a variety of standardized tests and measurement procedures including construction, use, and interpretation. Construction of teacher/counselor-made tests and measuring devices.
- PSY 6655 Internship: Psychology Assessment (6)**
This course will provide a clinical internship appropriate to the specialty and practice of psychological technician. Training will be six months in duration and consist of at least 500 hours, 250 of which hours must be in direct contact with patients/clients. The student will be supervised for at least one hour per each five hours of client contact. At least 60% of supervision will be provided by a licensed psychologist.
- PSY 6659 Cognitive and Behavioral Interventions (3)**
This is a study of the basic principles and techniques of cognitive and behavioral systems of intervention. Applications of these techniques are applied to the problems of children and adults in school, home, and clinic settings are presented.
- PSY 6662 Internship: Psychometry (3)**
This course includes at least 300 hours of prescribed experiences in school Psychometry, completed at approved schools (K-12), and supervised by an approved school psychometrist or school psychologist. *Prerequisites: PSY 6650 and approval of instructor.*
- PSY 6664 Assessment of Disabling Conditions (3)**
This course covers client assessment in the rehabilitation process and knowledge and skills required by the counselor in order to provide quality services to the individual. *Prerequisite: PSY 6653 or permission of instructor.*
- PSY 6668 Human Lifespan and Development (3)**
A study of the nature and needs of individuals at all developmental levels. Problems of human adjustment faced at all stages of development from conception through retirement, including adjustment issues in the home, school, work place, social groups, and retirement. An understanding of developmental crises in human behavior is also a goal of this course.
- PSY 6669 Behavior Pathology (3)**
A study of psychopathological disorders with emphasis on the psychological, social, and biological origins. The current classification system used by the American Psychiatric Association is used as a foundation. Diagnosis and treatment planning are emphasized.
- PSY 6670 Diagnosis and Treatment Planning (3)**
A course designed to assist mental health professionals in the understanding and application of a multiaxial system (current edition of the Diagnostic and Statistical Manual). Also included is a comprehensive treatment planning strategy for development statements of behavioral symptoms, short-term objective, long term goals and therapeutic interventions. Psychopharmacology treatment interventions are covered. *Prerequisite: PSY 6669.*
- PSY 6688 Medical/Psychosocial Aspects of Disability (3)**
A study of medical and psychological information related to the disabled persons and to their families. Aspects of personal and social adjustment will be emphasized.

PSY 6693 Psychological and Educational Statistics (3)
A study of variety of descriptive and inferential statistics commonly used in psychology and education. Emphasizes application of statistical methods to research design.
Prerequisite: ADE/CP/EDU 6691

gram. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed four semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.

RED 6673 Literacy II (3)

- RED 6630 Directed Reading Practicum (3)**
This course is designed to provide the future teacher with directed practice in providing reading interventions to individual students or small groups of students in school settings. Experiences in the planning and preparation of lessons, modification of lesson procedures, and materials to fit student needs and the ongoing evaluation of student progress are included.
- RED 6643 Trends in Children's and Young Adult Literature (3)**
A study of literature at the elementary, middle, and senior high levels. It includes reading the primary sources and studying the research and theory that support the use of children's and young adult literature in the classroom.
- RED 6660 Assessment for Teaching and Learning (3)**
A comprehensive study of the assessment process used in the P-12 classroom. Selection, administration, and analysis of norm-referenced, criterion-referenced, curriculum-based assessments instruments, and teacher-developed assessments used to determine the instructional needs of students and to plan intervention programs. Field experiences required.
- RED 6664 Literacy in the Content Area Grades K-6 (3)**
The examination of research-based methods and materials for teaching reading and writing in grades K-6. Field experiences required.
- RED 6670 Advanced Study of Literacy (3)**
This course prepares the student to examine the variables related to difficulties in learning to read printed material. Emphasis is placed on designing appropriate programs of improvement.
- RED 6671 Internship: Applying Research-Based Literacy Assessment and Instruction (2)**
Directed practice in administering assessments to guide instruction in the essential components of reading and writing. A minimum of 100 clock hours of clinical experiences. *Prerequisite: RED 6686 and formal admission to the Reading Specialist Program.*

uisite: 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.

GENERAL SCIENCE

SCI 5503 Conservation (3)
 The conservation of natural and human resources with emphasis on population expansion as the major element in a changing ecology.

SCI 5560 Science and Society (3)
 A study of the social, political and economic implications of scientific discovery, innovation, and implementation. *Prerequisite: Twelve hours of coursework in science or permission of instructor*

SCI 5595 Selected Topics in Science (3) Specialized topics not generally included in course offerings. Course may be taken twice for a maximum of six hours toward degree requirements. *Prerequisite: Eight hours of coursework in science or permission of instructor.* See semester hour limits listed under Course Restrictions in General Regulations section.

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

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) S3.1295 [(S3.A

		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. Preparation of a scholarly paper is required and may involve oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.			
SOC	6630	Advanced Gerontology (3) A graduate seminar on practical and methodological aspects of modern gerontology. Special emphasis is placed upon interdisciplinary, agency, and social intervention techniques for administrative and service workers with aged populations. The practical orientation of the seminar is designed to promote the development of professional skills in applied gerontology. <i>Prerequisite: SOC 3350.</i>			
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 and Physical Education (3) The course is designed to develop a greater understanding of the need and the application of tests and measurements in the evaluation process. Additionally, the course will offer several practical and economical tests in the various performance areas which can be used by the health and physical education teacher in the school situation.			
SFM	6610	Physical Education, Sport and the Law (3) The course is designed to provide graduate students participating in the Master's or Ed.S. programs information concerning legal matters and issues relating to physical education and sport. Of particular importance is acquiring an awareness and understanding 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 Sport and Fitness Management (3) An independent exploration of the literature and current research in the fields of Health Education and Physical Education. See semester hour limits listed under Course Restrictions in General Regulations section.			
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 HPR (1-9)
Study of 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 enroll-

- SFM 6691 Research Methods (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)

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*