
ACCOUNTING

ACT	6625	Specialized Study in the Area of
	6626	Accounting (1-3)
	6627	Study of problem or problems using re- search techniques. Selection of the problem must be approved by the student's adviser, instructor under whom the study is to be made, and the appropriate dean . The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substi- tuted for a required course only once in a student's program. Semester hour limits

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ADE	6608	Curriculum Integration of Technology (3) The purpose of this course is to prepare students to apply knowledge and competency in instructional technologies in relation to curriculum design, diverse models, and teaching situations at all developmental levels. Included is evaluation of software, audio/visual production, and instructional design using technology as a basis for instruction.	ADE	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.
ADE	6617	Seminar in Personnel Planning and Leadership (3) A study of literature and research pertinent to adult education in areas of planning and leadership.	ADE	6694	Special Problems in Adult Education (1-3) A study of problem or problems using research techniques. Selection of problem to be approved by student's adviser and instructor under whom study is to be made. Study should contribute to student's program. Preparation of scholarly paper or project required and may involve oral defense.
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	6696 6697 6698	Practicum in Adult Education (1-3) Supervised experiences related to instruction in area of specialization. Emphasis on application of skills, concepts, and principles
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 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.			
ADE	6680	Curriculum Development for Adult Education (3) A study of concepts, learning theories, materials, and media related to curriculum and program development in adult education.			

- BIO L582 Molecular Biology Lab (1)
Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings
-requisite: BIO 5582
- BIO 5592 Guided Independent Research (1-4 credit hours per course per semester)
Additional information is indexed under "Guided Independent Research and Study."
- BIO 5594 Guided Independent Study (1-4 credit hours per course per semester)
Additional information is indexed under "Guided Independent Research and Study."
- BIO 6600 Aquatic Entomology (3)
A study of the morphology, physiology, taxonomy, life histories, and ecology of aquatic insects. Prerequisites: General Biology, General Ecology Co-requisite: BIO L600
- BIO L600 Aquatic Entomology Lab (1)
Classification and identification of immature and adult aquatic insects. A collection is required. Co-requisite: BIO 6600
- BIO 6601 Environmental and Biological Ethics (3)
Examination of major ethical theories as they apply to environmental, biological, and medical issues. The linkage of ethics to decision-making in social, public, and business policy. Course develops skills in understanding value systems and framing

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- BIO 6630 Pollution Science (3)
A study of pollution of atmosphere, surface water, and soil and groundwater from animate activities and inanimate processes. Adverse effects, fate and transport of pollutants in air, soil, and water. Prerequisite: general chemistry. Co-requisite: BIO L630
- BIO L630 Pollution Science Lab (1)
Theory and analytical techniques used in both field and laboratory for the analysis of air, water, and soil contaminants. Co-requisite: BIO 6630
- BIO 6643 Biological Chemistry (3)

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as using a tube furnace and handling air-sensitive compounds with a glove bag and Schlenk line. Co-requisite or prerequisite: CHM 5544

- CHM 5545 Instrumental Analysis (3)
A study of the operating principles of modern analytical instrumentation for determining composition and concentration. Prerequisites: CHM 2242, CHM 3343; PHY 2253 and L253 or PHY 2263 and L263. Co-requisite: CHM L545
- CHM L545 Instrumental Analysis Laboratory (1)
The practical application of select modern analytical instruments to qualitative and quantitative examination of matter. Considerable attention is given to the instrument and elementary electronics involved in each. Co-requisite: CHM 5545
- CHM 5552 Physical Chemistry I (3)
A study of the theory and applications of

sis, organization and management, and the technical aspects of the judicial function at both trial and appellate levels.

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| CJ | 6625 | <p>Specialized Study (3)</p> <p>This course provides the student an opportunity to pursue in-depth study on a topic or issue of personal interest under the guidance and direction of a department faculty member. May be repeated up to a total of six credit hours. See semester hour limits listed under Course Restrictions in General Regulations section.</p> |
| CJ | 6630 | <p>Juvenile Justice (3)</p> <p>An examination of the agencies, institutions, and personnel that work with juvenile offenders. Of special interest will be how the police, courts and correctional agencies interact and deal with juvenile offenders, as well as a review of the current issues and proposals being discussed at the national level.</p> |
| CJ | 6635 | <p>Community-Based Corrections/Correctional Systems (3)</p> <p>This course will advance the concept of the development of programs for offenders which substitute treatment in the community for institutionalization or imprisonment. Collectively, these programs constitute what is termed "Community-Based Corrections."</p> |
| CJ | 6636 | <p>Criminological Theory (3)</p> <p>An in-depth overview of major criminological perspectives as well as their nature and extent, especially those found in the United States, and an analysis of the etiology of criminal behavior,</p> |

 COMMUNICATION STUDIES

- COM 5531 Interpersonal Communication (3)
A study of theories of Communication behavior in relatively unstructured face-to-face situations, including small-group discussion.
- COM 5541 Oral Interpretation (3)
A study and application of the principles and practices of oral interpretation (reading) of literature, including individual and ensemble performance.
- COM 5542 Rhetoric (3)
A study of the historical development of rhetorical theory in Western thought from the Classical to the Contemporary periods and its relationship to practice and criticism. The course includes opportunities for advanced public speaking and small group discussion.
- COM 6625 Specialized Study in Area of Speech
6626 Communication (1-3)
6627 Under the supervision of the faculty course supervisor, the student may pursue an extensive study of a particular area which fits his/her academic needs but is not available in the regular curriculum. Each proposal must be approved the preceding term by advsi.dTD .00TD .000m pre6(ers)88urr 0 -1.04[(su8(y)1(u5(sp Contemtm(t)-chaird

CP	6634	<p>Drug Education, Prevention, and Intervention (3)</p> <p>A study of commonly abused drugs, drug abuse prevention, and treatment techniques. Examines characteristics of people at high risk to become substance abusers/addicted.</p>	CP	<p>6642</p> <p>Group Dynamics and Counseling (3)</p> <p>The study of group dynamics and group counseling theories, including ethics, group leadership styles, types of groups, group counseling methods and skills, group developmental stages, and therapeutic factors of group work. Experiential activities included. Prerequisite: CP6610 or adviser's approval.</p>
CP	6635	<p>Crisis Response Management (3)</p> <p>This course provides community personnel, school personnel and other education and/or health professionals with information about the nature of global and local disasters. Course content includes appropriate responses to a variety of crisis scenarios and information on major theories of crisis intervention.</p>		
CP	6636	<p>Foundations of Student Affairs (3)</p> <p>This course is designed to provide a comprehensive introduction to the field of student affairs in higher education through a review of its historical and philosophical influences; purpose, roles, and functions; and contemporary issues and trends.</p>		
CP	6637	<p>Administration of Student Affairs Programs (3)</p> <p>This course is designed to provide the knowledge and skills required for effective administration of student affairs in higher education. The course will focus on designing, managing, and evaluating student affairs programs.</p>		
CP	6638	<p>Internship: Student Affairs Counseling (3)</p> <p>This course provides supervised student affairs counseling experiences in the college environment. The experience is accompanied by scheduled on-campus supervision with the university supervisor. Internship equals 300 clock hours, to include 120 hours of direct student affairs service. Prerequisite: CP 6650</p>		
CP	6639	<p>Internship: Student Affairs Counseling (3)</p> <p>This course provides supervised student affairs counseling experiences in the college environment. The experience is accompanied by scheduled on-campus supervision with the university supervisor. Internship equals 300 clock hours, to include 120 hours of direct student affairs service. Prerequisite: CP 6638</p>		
CP	6641	<p>School Counseling and Program Management (3)</p> <p>In this course students will study planning, designing, implementing, and evaluating a comprehensive developmental school guidance program. The school counselor's role as an advocate and school leader will be emphasized. Historical perspective, new academic achievement, guidance curriculum and ethical and legal issues will be included.</p>		

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- 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, family and sex problems. Students will be equipped with the skills necessary for working with all members of the family.
- CP 6657 Internship: School Counseling (3)
This course provides supervised school based experience at both the elementary and secondary levels. The school-based experience will be accompanied by scheduled on campus supervision with the university supervisor. Course equals 300 clock hours of internship, to include 120 hours of direct student service. Grading system is Pass / Fail. Prerequisite: CP 6650
- CP 6658 Internship: School Counseling (3)
This course provides supervised school-based experience at both the elementary and secondary levels. The school based experience will be accompanied by scheduled on campus supervision with the university supervisor. Internship equals 300 clock hours, to include

		mester hours of internship per semester with CP adviser approval. Each student must complete 120 hours of direct service with clients. Grading system is Pass / Fail. Prerequisite: CP 6650	6687	Placement of Special Disability Groups (3) A study of effective job development and placement techniques and strategies in the rehabilitation process for disability groups traditionally challenging to place: Blind, Deaf, Hard of Hearing, Mentally Ill, Traumatic Brain Injured, Spinal Cord Injured, Multi-disabled and Learning Disabled.
CP	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.	6691	Research Methodology (3) The study and evaluation of research methods commonly used in the social sciences. The course will provide information necessary to understand and apply research processes, synthesize knowledge and writing, and plan and organize research problems for interpretation and application of research results. Application of these skills in the form of a written project using the Publication Manual of the American Psychological Association (APA) is required. Students enrolled in the Counseling and Psychology programs are required to take CP 6691 Research Methodology only at Troy University. This research course may not be substituted with another Troy University research course or one transferred from another university. A grade of "B" or better is required.
CP	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.	7700	Advanced Practicum in Group Leadership (3) Supervised training in group leadership, including experiential and didactic activities, focusing on group facilitation. Prerequisites: CP 6642 and CP 6650 or equivalents and permission of the instructor. Enrollment restricted to Ed.S. students.
CP	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, SY 6653. Taken in conjunction with internship.	7701	Seminar in Counseling and Student Personnel Work (3) Individual readings and conferences, group discussions and reports focusing on the advanced student's special interest in counseling and human development. Emphasizes research findings.
CP	6683	Leadership and Advocacy: Visual Impairment (3) The purpose of this course is to develop an appreciation for the organization, administration and coordination of services for the visually impaired. Strategies for consulting with various agencies, educating the general public, counseling with the visually impaired and their families as well as approaches for advocating for these populations will be explored. Prerequisites: CP 6650, CP 6652, SY 6653. Taken in conjunction with internship.	7702	Advanced Theories and Techniques of Counseling (3) An in-depth study of current viable theories of counseling utilizing techniques appropriate for each framework. Some areas to be covered include the cognitive, affective, and eclectic approaches. Prerequisite: CP 6649 or equivalent
CP	6685	Case Management (3) A study of the casemanagement process, including case findings, service coordination, referral and utilization of other disciplines, and client advocacy.	7725 7726 7727	Advanced Studies in Counseling (1-3) A study of a problem or topic using research techniques or a guided program of readings. Preparation of a scholarly paper is required and may involve an oral defense. A specialized study may be substituted for only one required course or elective in a student's program. Approval by the student's adviser, the course instructor, and department chair is required.
CP	6686	Job Development and Placement (3) A study of the analysis of job development and placement in the rehabilitation process and related fields.		

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- CP 7753 Internship: Advanced Counseling (1-3)
7754 This course provides advanced graduate
7755 students with full-time, supervised, on-the-job
experience in settings appropriate to their area
of specialization. Experiences accompanied by
weekly on-campus meetings designed to provide
opportunity for analysis and evaluation of
supervised activity. Grading system is Pass /
Fail.
- CP 7791 Research Seminar (1-3)
7792 This course provides in-depth assistance to pre-
7793 pare students for development of, research for,
and preparation of these field project pro-
posals.
- CP 7794 Field Project (3)
An independent study of a problem of a practical
nature which is encountered in a field
setting. A proposal for the study and a written
report of the findings must be approved
by the student's advisory committee. The
advisory committee will administer an oral
examination covering the research findings.
Grading system is Pass / Fail.

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- CS 6641 Society and Information Systems (3)
A survey and analysis of individual and societal attitudes, interactions, and decision-making is provided concerning the design and application of computers in information storage, retrieval and processing.
- CS 6643 Theory and Design of Compilers (3)
The formal properties of grammars, lexical and syntactic analysis, macro generators, and code selection are presented. Additional topics include hardware compilers, extensibility of languages, and implementation of simple compilers. Prerequisite: CS 372 or 3370
- CS 6646 Information Systems for Operations and Management (3)
Conceptual and practical foundations of information processing systems' support for management and decision-making functions are examined. Computer system project management, economic and legal considerations of management information systems, systems implementation and evaluation are additional topic areas covered in this course. Prerequisite: CS 5547
- CS 6647 Simulation and Modeling (3)
The theory and design of modeling problems, validation and verification of simulation models for dynamic queueing and static Monte Carlo problems are reviewed. Discrete event and continuous simulation models are analyzed. Random number generation used in simulation languages and the implementation of models on computer hardware and software engineering using general purpose and simulation languages are presented in this course. Prerequisite: CS 5547
- management 6648 Operations Resrs

		DRAMA	
		DRA 5543	<p>Theatre History I (3) A history of the theatre from the origin of tragedy through English drama of the 17th century. A study of dramatic literature and elements of the theatre designed to enhance the student's appreciation of contemporary Theatrical practices in the staging of the "classics".</p>
		DRA 5551	<p>Directing I (3) Script analysis and directing principles with studies in the direction of contemporary scenes one-act plays.</p>
		DRA 6625	<p>Specialized Study in Area of Theatre (1-3) Under the supervision of the faculty course supervisor, the student may pursue an extensive study of a particular area which fits his/her academic needs but is not available in the regular curriculum. Each proposal must be approved the preceding term by the student's advisor, the faculty course supervisor, and the department chair person. Total credit for any combination of enrollments in these courses may not exceed six semester hours. See semester hour limits listed under Course Restrictions in General Regulations section.</p>
CS	6656		<p>Design and Testing of Reliable Digital Systems (3) Introduction to digital circuits testing. Fault model and test generation for combinational circuits—fault table, path sensitization, ENF, SPOOF and Boolean difference methods. Fault detection in sequential circuits—state identification sequences and designing checking experiments for sequential machines. Design for testability—easily diagnosable and counter-cycle (CC) type sequential machines. Random testing of digital combinational and sequential circuits—continuous-parameter Markov model and error latency mode. Built-in self-test (BIST) in VLSI. Data compression in VLSI BIST — concepts of space compression and time compression. Aliasing probability. Fault signature analysis. Fault simulation. Deterministic and pseudo-random test pattern generator. FAN and PO-DEM. Scan path design. Functional testing of LSI and VLSI circuits—testing microprocessors. Testing of memory devices. Recent trends— embedded systems and systems-on-chip (SOC) design and circuits. Fault tolerance and reliability in modern digital design. Prerequisite: CS 5545</p>
EDUCATIONAL ADMINISTRATION & LEADERSHIP			
		EAL 6603	<p>School Business Procedures (3) This is a comprehensive course designed to focus on the skills and knowledge needed to conduct school business procedures at two levels: school and district. The purpose is to concentrate on the principles and best practices necessary to manage those business transactions for effective school business administration.</p>
		EAL 6609	<p>Communication and Problem Solving (3) This course is designed to improve the school leader's skill in communication and problem solving. Emphasis will be placed on listening skills, group dynamics, conflict resolution and consensus building. Special attention will be given to these topics while working with ethnically or culturally diverse populations.</p>
CS	6699		<p>Research and Thesis (1-6) Guided research in Computer Science results in the preparation of a scholarly thesis. The thesis includes a discussion of the research design and methodology available to plan and conduct a systematic, thorough, critical, interpretive and analytical research in an area appropriate to the interest of the individual student and consistent with the degree program. The course requires students to prepare a thesis within guidelines provided by the faculty member and to defend it before a thesis committee.</p>
		EAL 6610	<p>Grant Writing and Fund Raising (3) This course explores how to write a grant and discusses alternative ways of fundraising. Particular attention will be given to grant writing protocols and procedures, as well as the dynamics involved in responding to a Request for Proposal, and understanding the schools system's bureaucratic structures.</p>

- 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.
- 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.
- EAL 6625 Specialized Topics in Educational Leadership (3)
A seminar concerned with an in-depth examination of one topic that is acutely important to educational leadership. Students are expected to use primary resources, journals, and the Internet to research and discuss the topic. The primary format of the class will be discussion, although group exercises, individual presentations and written response will also be used.
- EAL 6633 Educational Leadership (3)
This course deals with the development of knowledge and skills needed for the responsibilities and major functions of educational leaders. The concept of leadership is discussed from both a theoretical and practical standpoint. Distinctions between management skills and leadership skills are emphasized. Key leadership challenges such as vision, motivation, staff development, inclusive decision making and strategic planning are stressed. Historical and contemporary accounts of successful leaders are utilized. The ethical and moral aspects of leadership are examined.

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- EBS L513 Limnology Lab (1)
Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. Co-requisite: EBS 5513
- EBS 5516 Microbial Ecology (3)
The study of the diversity and ecology of microbial populations in ecosystems, with the emphasis on the roles that they play in biogeochemical cycles, their contributions to metabolic diversity, their interactions with animals and plants, their niches and bioremediation. Prerequisites: Microbiology, Organic Chemistry. Co-requisite: EBS L516
- EBS L516 Microbial Ecology (1)
Microbial ecology laboratory techniques including isolation, identification, and enumeration of microorganisms from aquatic and terrestrial environments. Co-requisite: EBS 5516
- EBS 5520 Field Vertebrate Zoology (4)
The basics of vertebrate identification, with emphasis on phylogeny, anatomy, morphology, life histories, habitats, distributions, and conservation. Prerequisites: General Biology, General Chemistry
- EBS 5521 Population Ecology (3)
A study of animal and plant populations, food supply, competition, disease, fecundity, distribution, and other environmental factors. Management of endangered species and protected ecosystems are included. Prerequisites: General Ecology, Genetics, General Chemistry, Statistics. Co-requisite: EBS L521
- EBS L521 Population Ecology Lab (1)
Field exercises in identifying ecological problems, formulating and testing hypotheses, and evaluating data using standard statistical methods. Co-requisite EBS 5521
- EBS 5525 Field Botany (4)
A survey of vascular plants from different habitats in southeast Alabama. Principles of plant taxonomy, including history and systems of classification and nomenclature, the use of dichotomous keys, and general herbarium techniques. Co-requisite: EBS 5513

function of nucleic acids and proteins.
Pre-requisites: genetics, microbiology, organic chemistry. Co-requisite: EBS L582

- EBS L582 Molecular Biology Lab (1)
Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings.
Co-requisite: EBS 5582
- EBS 6600 Aquatic Entomology (3)
A study of the morphology, physiology, taxon-

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- EBS 6630 Pollution Science (3)
A study of pollution of atmosphere, surface water, and soil and groundwater from animate activities and inanimate processes. Adverse effects, fate, and transport of pollutants in air, soil, and water. Prerequisite: general chemistry. Co-requisite: EBS L630
- EBS L630 Pollution Science Lab (1)
Theory and analytical techniques used in both field and laboratory for the analysis of air, water, and soil contaminants.
Co-requisite: EBS 6630
- EBS 6635 Land Use Planning (3)
An introduction to land use planning and land use tools, including zoning and comprehensive planning. The course also examines the interaction between land use and environments and explores strategies to reduce environmental impacts and protect natural resources.
- EBS 6637 Environmental Economics (3)
Introduction to the micro and macro aspects of environmental economics. The course will

EBS 6695 Thesis Research (1- 6)
Under the guidance of the student's adviser

of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester. Grading system is Pass / Fail.

ECE 7725 Specialized Study in ECE (1-3)
A study of the problem using research techniques. Selection of problem must be approved by the professor under whom the study is to be made, and the Dean of Education. The study should contribute to the student's program. Preparation of a schol-

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ECO	6655	<p>Managerial Economics (3)</p> <p>A study of the decision-making process of business firms in the resource allocation process. Both the functioning of the markets and the decisions of firms in a variety of market structures are considered. Various theories of the firm are used to study the optimal decision-making rules for business firms under conditions of uncertainty. Prerequisite: All business foundation courses or equivalent.</p>	EDG	6670	<p>Special Populations of Gifted Students (3)</p> <p>This course examines ways in which teachers can identify and plan for gifted children from special and underrepresented populations with particular emphasis on under-achieving students, minority students, and students with physical, emotional, and learning disabilities. Prerequisite: EDG 6666</p>
ECO	6657	<p>International Trade and Economics (3)</p> <p>Principles and problems of international economics, trade theory, international payments, and monetary policies, economic integration, international economic institutions and policies, and contemporary developments in political economy. Prerequisite: All business foundation courses or equivalent.</p>	EDG	6696	<p>Practicum in Gifted Education (3)</p> <p>Supervised experiences related to instruction in gifted education. The application of skills, concepts, and principles acquired in previous courses will be emphasized. Prerequisite: At least six hours in teaching field component and a research course must be completed.</p>

GIFTED EDUCATION			EDUCATION		
EDG	6666	<p>Nature and Needs of Gifted Individuals (3)</p> <p>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.</p>	EDU	6600	<p>Classroom Management and Behavior Intervention (3)</p> <p>This course is a study of current theory, research, and practice in psychology, sociology, leadership, and human behavior as related to school age students, the nature of the educational organization, and the role of the teacher in that organization. Emphasis is placed upon the formation of a positive, developmental philosophy for effective management of classroom resources and student behavior as well as the identification of some appropriate methods and techniques to apply this philosophy.</p>
EDG	6667	<p>Creativity (3)</p> <p>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</p>	EDU	6603	<p>Planning For the Classroom (3)</p> <p>This course provides students with an overview of the K-12 classroom environment and the planning necessary to establish environments that are conducive for learning.</p>
EDG	6668	<p>Integrating Thinking Skills into the Curriculum (3)</p> <p>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</p>	EDU	6606	<p>Current and Emerging Instructional Technologies (3)</p> <p>This introductory course focuses on current and emerging instructional technologies. The emphasis of this class is on the instructional use of computers, Microsoft Office applications, software, desktop publishing, graphics, hypermedia, and the internet. Prerequisite: permission of instructor.</p>
EDG	6669	<p>Teaching Methods in Gifted Education (3)</p> <p>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</p>	EDU	6607	<p>Curriculum Integration of Technology (3)</p> <p>This course covers the evaluation, selection, and integration of various instructional software and web-based technologies into curricula, taking into consideration teaching and learning styles while testing technologies to instructional settings diverse models, and</p>

developmental levels. Micro-lessons are produced using multimedia-authoring tools. Prerequisite: EDU 6606 or permission of instructor.

EDU 6611

Educational Technology in the Curriculum (3)

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

EDU 6613

Principles of Instructional Design (3) Ta5(d)6.6()5.4()TJ 0 -1-1.33 -1.1533 TD .0001 Tc .14nm51 .7098teracon e the76

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- EDU 6630 Teachers and the Law (3)
This course is designed to help teachers become legally literate by providing them with information about the law that affects them, how the legal system works, and how that system can work for them.
- EDU 6632 Seminar in Classroom Teaching (2)
This course is an inter-disciplinary seminar course designed for classroom teachers who desire to investigate in depth the techniques, procedures and strategies related to improving learning through improved teaching.
- EDU 6645 The Nature of Intelligence (3)
This course provides a description and analysis of the quantitative and qualitative aspects of intelligence. It includes classic and contemporary theories of learning and their relationship to the understanding of individual differences.
- EDU 6650 Global Education in the Elementary/Middle School (3)
This course is designed to instruct teachers about the complexities of citizenship in a world community, current issues, and concerns in this field and methods of globalizing the existing elementary curriculum.
- EDU 6653 Educational Evaluation (3)
A study of the basic statistical processes and measures used in education. Analysis of a variety of standardized tests and measurements procedures including construction, use and interpretation. Construction of teacher made tests and measuring devices.
- EDU 6655 The Arts Curriculum (3)
This course prepares the teacher to provide a broad-based arts education program that includes history, interpretation, production, and appreciation. Emphasis is placed on utilizing the arts to enrich students learning in all curricular areas.
- EDU 6656 Teaching the Bilingual Child (3)
This course prepares teachers to make classroom and instructional accommodations to meet the needs of the bilingual child. It also addresses facilitating home-school partnerships with families of bilingual children.
- EDU 6658 Understanding Cultural Diversity (3)
Understanding of culturally different studies, the psychological and sociological factors that influence the counseling, teaching

theory, estimation and significance, correlation and regression, analysis of variance, and chi-square. A grade of "B" or better is required.

- EDU 6695 Thesis (3)
The thesis must be related to an educational problem or situation. Information regarding the thesis program may be obtained from the Dean of the Graduate School. This course may be repeated. Grading system is Pass / Fail.
- EDU 6696 Practicum in Area of Specialization (1-6)
The Practicum is supervised experiences related to instruction in area of specialization. The application of skills, concepts, and principles acquired in previous courses will be emphasized. Prerequisite: All Teaching Field courses must be completed.
- EDU 6698 Introduction to Research (3)
This course is designed to assist graduate students as they become competent consumers and producers of educational research. Purposes, designs, and characteristics of quantitative and qualitative research will be

associated with school accreditation. The accreditation process in these areas will be reviewed and analyzed. Students will com-

- ENG 6603 Seminar in Shakespeare (3)
A study of selected tragedies or comedies. Examination of various critical approaches. Extensive reading in relevant criticism. List of plays, as well as genre, may vary with each offering.
- ENG 6605 Linguistic Approaches to Grammar (3)
Study of American English from point of view of modern linguistic theories. Special consideration given to structural grammar and its possibilities in classroom.
- ENG 6606 Theory and Practice of Analyzing Poetry (3)
A critical study of representative types of poetry, employing several approaches in analytical process.
- ENG 6607 The Backgrounds of Victorian Literature (3)
A study of Victorian literature (1837-1900) as it reflects social economic, political, educational, aesthetic, and religious concerns.
- ENG 6608 Shakespeare's History Plays (3)
A study of eight plays, from Richard II to Richard III, concerning the Wars of the Roses. Supplemental reading in Shakespeare's sources and in twentieth- and twenty-first-century histories.
- ENG 6609 The Backgrounds of Nineteenth-Century American Literature (3)
A study of literature (fiction, nonfiction prose, and poetry) as it reflects key issues, ideas, concerns, problems, and trends of the period. May be taught in conjunction with a course in American history.
- ENG 6610 The Backgrounds of Twentieth-Century American Literature (3)
A study of literature (fiction, nonfiction prose, poetry, and drama) as it reflects key issues, ideas, concerns, problems, and trends of the period. May be taught in conjunction with a course in American history.
- ENG 6613 Theory and Practice of Analyzing the
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ENG	6636	The American Renaissance (3) A seminar stressing critical approaches to the major works of Emerson, Thoreau, Hawthorne, Melville, Poe, and Whitman.	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	6638	Major American Writers: WWI to Present (3) A study of major American writers who represent the various currents in American literature and thought from 1917 to present.	ENG	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	6641	Theory and Practice of Grammar Studies (3) Advanced studies in descriptive grammar in conjunction with sentence structure and standards of usage. Special emphasis upon current procedures for presenting the various systems of grammar (particularly structural).			
ENG	6642	Theory and Practice of Written Composition (3) Advanced studies in expository and argumentative writing. Special emphasis upon procedures for presenting methods for organizing and developing various types of essays.	ENG	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	6643	Trends in Children's and Young Adult Literature (3) A study of literature at the elementary, middle, and senior high levels. It includes reading the primary sources and studying the research and theory that support the use of children's and young adult literature in the classroom.	ENG	6696	Practicum in Area of Specialization, English (3) Supervised experiences related to instruction in area of specialization. T69p6s05 3t746.7(Semin68.7(in(T18
ENG	6648	Studies in the American Renaissance (3) A study of the major works of the American Renaissance			
ENG	6651	Studies in Modern Novel (3) A study of selected American, British, and/or European novels of the modern age.			
ENG	6656	Studies in Literacy and the English Language (3) Explores the rationale and practices for integrating the study of grammar and composition in the English language arts classroom.			
ENG	6660	Introduction to Applied Linguistics (3) This course introduces the main content areas and research practices of Linguistics and Applied Linguistics. Linguistics involves the systems of a language (phonology, morphology, syntax, semantics). Applied Linguistics requires familiarity with these systems for the purpose of researching and teaching the way language is used (e.g., Sociolinguistics, Second Language Acquisition).			
ENG	6665	Studies in African American Literature (3) A study of major works by African American writers.			

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

GEO	6625 6626 6627	Specialized Study in Area of Geography (1-6 hours) A study of a problem or problems using research techniques. Selection of problem must be approved by the professor under whom the study is to be made, and the Dean of Arts and Sciences. The study should contribute to the student's program. Preparation of a scholarly paper is required and may involve oral defense. Total credit for any combination of enrollments in these courses may not exceed four semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.	HEA	6660 6690 6696	Contemporary Issues in Higher Education (3) This course is an intensive examination of the major issues currently confronting higher education with emphasis on issues of major concern to individual students. Financing of Higher Education (3) An analysis of private, state, and federal revenue sources; student aid, program budgets, financial methods and practices through the combination of theory with problems and issues facing the financing of higher education. Practicum in Higher Education (1-3) The Practicum is a supervised application of the concepts, principles, and skills acquired by the students in previous course work. Students will explore and identify alternative solutions to the problems through group interaction.
GEO	6650	Geography of the Global Economy (3) An examination of the global economy from colonialism to the present. Social, political, and environmental factors associated with the diffusion and intensification of world trade are examined.			

HIGHER EDUCATION ADMINISTRATION			HISTORY		
HEA	6611	Organization and Administration of Higher Education (3) This course is designed to acquaint education leaders in higher education with the control, organization, financial and business aspects, academic and student personnel administration of the instructional program, and community and government relationship.	HIS	5501	French Revolution and Napoleon (3) A study of the absolutist-aristocratic France challenged by democratic-egalitarian ideals and revolution. The role of Napoleon as conqueror of Europe and as propagator and destroyer of the French Revolution is also studied.
HEA	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.	HIS	5502	Europe from 1815-1900 (3) A study of Europe from the Congress of Vienna to 1900, including political, social, and economic developments in various countries, the rise of nationalism and unification movements, and imperialism.
HEA	6614	School Law (3) A study of school law as set forth in the common law, state, and federal constitutions, statutes, judicial decisions, and in the rules and regulations of state. Major emphasis will be on state and federal law and its impact on education today.	HIS	5503	Contemporary Europe (3) Traces European developments in the 20 th century, including domestic developments, World War I, Great Depression, rise of totalitarianism, World War II, European integration, the Cold War, and the post-Cold War era.
HEA	6635	Seminar on the American College Student (3) An examination of contemporary college students, focusing on the environment pressures, psychological needs, and values. Emphasis will be placed on student, faculty and administration relationships and interactions. Recent research and literature on the college student will be examined.	HIS	5504	Military History of the United States (3) A study of war in U.S. history from the Colonial era through the Vietnam war, with emphasis on the role of warfare in American history and the military-civilian relationship.
			HIS	5505	Old South (3) An examination of the cultural, political, religious, and economic trends that shaped the colonial and antebellum south and the Civil War which ended that era.
			HIS	5506	New South (3) An examination of the political, social, racial and religious trends and policies that

		defined the New South. Topics include reconstruction, redemption, agrarian unrest, Jim Crow, industrialization, Progressive Movement, World War I, the Great Depression, World War II, and the Civil Rights Movement.			nial period, the escalating involvement of the Kennedy and Johnson administrations, and Vietnamization and withdrawal under President Nixon. Note: May be used for political science credit.
HIS	5509	England To 1688 (3) A survey of English history from the Anglo-Saxons to the Glorious Revolution, emphasizing the interaction of the geographical, political, economic, and cultural forces which shaped England as a monarchy.	HIS	5523	U.S. Foreign Policy To 1920 (3) A study of the factors, forces, and functions in the making of American foreign policy from the 1760's to 1920. Note: May be used for political science credit.
HIS	5510	England Since 1688 (3) The final evolution of the English political system from the reign of William and Mary to the contemporary era, including social and economic transformations, the British Empire, the two world wars, the welfare state, and current issues.	HIS	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	5511	Colonial America (3) Study of the colonial period from European discovery to the end of the French and Indian War, with emphasis on the political, economic, and social developments that set the stage for the American Revolution.	HIS	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	5512	The American Revolution and The New Nation, 1763-1815 (3) Ideas and institutions which led to American independence, the creation of the American union, and the development of a distinctive American culture in the early national period.	HIS	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	5513	Antebellum, Civil War and Reconstruction (3) Nationalism, Jacksonian democracy, territorial expansion, slavery and sectional strife, and the resulting Civil War and Reconstruction are included.			
HIS	5514	Emergence of Modern America, 1877-1919 (3) Agricultural decline and crisis, industrialization and urbanization, Progressive reform era, World War I, and America as a world power are discussed.			
HIS	5515	Contemporary America (3) Examines America in the Great Depression, World War II and the Cold War, Civil Rights Movement, Johnson's Great Society, and America as a super power.			
HIS	5516	History of Alabama (3) A study of the demographic, political, social, economic, and religious aspects of Alabama's history, emphasizing the role of the state within the nation.			
HIS	5520	The Vietnam War (3) A study of the period 1946 to 1975 in Indochina with emphasis on the American involvement during and after the French colo-			

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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	5583	Latin American States (3) Cultural, social, political, and economic development in 19 th and 20 th centuries and international and U.S. relations.
HIS	5543	Age of Absolutism (3) Survey of political and religious controversies that shaped affairs in Europe during the 16 th and 17 th centuries, emphasizing the flowering of monarchy and aristocracy.	HIS	5595	Selected Topics in History (3) Historical examination of a designed topic of special and/or current interest and importance, which is generally not covered in regularly offered courses by the department. See semester hour limits listed under Course Restrictions in General Regulations section.
HIS	5544	Age of Reason (3) Survey of European history in the 18 th 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	6600	Problems in 19 th Century American Thought (3) Concentrated study of the history of ideas in the United States from 1800 to 1900. On demand.
HIS	5545	Modern Germany (3) Survey of Germanic peoples from the Revolutions of 1848 to the present, emphasizing unification, two world wars, postwar division, and reunification.	HIS	6602	Problems in 20 th Century American Thought (3) Concentrated study of the history of ideas in the United States, 1900 to present. On demand.
HIS	5548	Westward Movement (3) Study of the history of American expansionism and westward movement and its impact on political, economic, and social institutions.	HIS	6603	Seminar in 18 th Century American Thought (3) An exploration of major historical works and historiographical controversies in 18 th century United States. On demand.
HIS	5550	Environmental History (3) An introduction to environmental history of the United States from the 18 th century to the late 20 th century, emphasizing the post World War II period. The course will focus on the historical development of the science of ecology, the origins of environmental problems and solutions attempted by government and experts and responses by grassroots activists over time.	HIS	6604	Seminar in Modern France (3) The evolution of France from the formation of the Third Republic to the present.
HIS	5551	The Far East (3) Study of the development and interaction of Chinese, Japanese, and Korean civilizations; the impact of Western cultures, twentieth century conflicts, resolutions and accommodations.	HIS	6607	Issues in International Affairs (3) With directed reading and periodic discussion sessions, this course serves to expand the student's knowledge of current issues in the global setting. Formerly called Colloquium in World History, the course will emphasize recent scholarship and interpretations.
HIS	5554	Western Thought since the 17 th Century (3) Principal ideas and political thinking from the Age of the Enlightenment to the present.	HIS	6608	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.
HIS	5560	Historiography (3) Study of methods and techniques of historical research. Use of bibliographies, journals, interpretive works, and critical evaluation of sources. Offered at Montgomery, on demand.	HIS	6609	Seminar in Early Modern Europe (3) An analysis of the historical developments and controversies of early modern Europe. On demand.
HIS	5582	Hispanic American Beginnings (3) Colonial systems of Spain and Portugal in the Americas from the 16 th to 19 th centuries, with emphasis on revolution and the establish-	HIS	6610	Seminar in Comparative Revolutions (3) An examination of background, outbreak, development, and conclusion of the American, French, Russia, and other revolutions. On demand.

HIS 6611 Seminar in Modern Europe (3)
An analysis

HEALTH SERVICES ADMINISTRATION

HSA	6625	Specialized Study in the Area of
	6626	Healthcare Management (1-3)
	6627	Study of problem or problems using re-

Relations including research design, variables and hypotheses, citations and reference, qualitative analysis and quantitative techniques. A substantial research paper is required in the course.

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IR	6644	<p>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.</p>	national, and global levels to include theoretical constructs about conflict management techniques (mediation, negotiation, escalation, de-escalation, termination, and outcomes).
IR	6645	<p>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.</p>	IR 6656 International Power and Influence (3) A theoretical and empirical examination of how nations use political, military, and economic resources to influence the behavior of other nations. The course will consider the effectiveness of political communications, public relations, foreign aid, economic sanctions, threats of force, and limited uses of
IR	6647	<p>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.</p>	
IR	6648	<p>Sub-Saharan Africa in World Affairs (3) An examination of Sub-Saharan politics, legal systems, economics, culture, military power, geography, and their impact on regional relations and linkages to the world system.</p>	
IR	6652	<p>Theory and Ideology in International Relations (3) An examination of historical and contemporary theories in international relations; the role of political, economic, ethnic, religious and other belief systems or philosophical approaches within the global system.</p>	
IR	6653	<p>Political Psychology (3) An examination of the impact of individual and collective human behavior on the political process. An introduction to the methods of inquiry into a society's belief system, social cognition, socialization, and political behavior. Special attention is placed on the behavioral sources of political violence, the relationship between culture and political behavior, and collective alienation.</p>	
IR	6654	<p>Media, Technology, and International Politics (3) This course focuses on the role of media in international politics with particular emphasis on the impact of technological change. This includes the reportage and representation of world events through the broadcast, print, and entertainment media. The course explores issues related to cultural change through media communication, elite empowerment and ownership of media assets, the changing nature of foreign and domestic influences in politics and the role of media technology in affecting approaches to public policy issues.</p>	
IR	6655	<p>International Conflict Management (3) This course analyzes responses to international conflict and approaches to establishing peace and peacekeeping at the local,</p>	

course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.

IR 6675 Central America in World Affairs (3)
An examination of the Central American

conomic and legal considerations of management information systems, and system implementation/evaluation
Prerequisite: All business foundation courses or equivalent.

KINESIOLOGY AND HEALTH PROMOTIONS

- KHP 6601 Philosophy and Principles of Health and Physical Education (3)
This course will introduce the sociological-psychological, educational-motor learning, mechanical-kinesiological, and physiological aspects of health and physical education.
- KHP 6602 Motor Skills and Human Performance (3)
In an interdisciplinary approach, students will be exposed to a systematic analysis of motor skills and human performance. Students will learn how to observe, evaluate and diagnose, and apply interventions to improve motor skill performance.
- KHP 6604 Statistical Analysis and Interpretation (3)
The study of fundamentals, analyses, and interpretation of statistics. Statistical information to include sampling, hypothesis testing, regression, frequency distributions, t-tests, parametric/nonparametric statistical techniques, multivariate data analysis (MANOVA), and others using SPSS and other statistical software.
- KHP 6610 Physical Education, Sport and the Law (3)
The course is designed to provide students an awareness and understanding of basic legal responsibilities of educators and coaches.
- KHP 6615 Organizational Behavior & Leadership in Sport (3)
The study of the basic concepts, theories and organization of administration including financial management as applied to sport, physical education, recreation, and intramurals.
- KHP 6616 Sport Finance (3)
This course is designed to provide students with information concerning advanced theory in finance, accounting, and managerial control of budgets.
- KHP 6617 Research Methods I (3)
An independent exploration of the literature and current research in the fields of Health Education and Physical Education. A grade of "B" or better is required.
- KHP 6620 Physical Fitness A Critical Analysis (3)
This course is designed to prepare the student for the American College

- KHP 6631 Programs in Health and Physical Education (3)
The course reviews appropriate curriculum for children of various age levels. Particular attention is devoted to a study of the capacities, attitudes, and needs of pupils as they are related to health and physical education. The principles, problems and procedures in the development of a health and physical education curriculum are thoroughly examined.
- KHP 6632 Critical Issues in Sport and Fitness Management and Health and Physical Education (3)
Recognition, discussion, and systematic analysis of controversial issues and problems encountered in the conduct of professional activities in health and physical education.
- KHP 6640 Sport Marketing: Physical Education, Athletics, Recreation and Intramurals (3)
The purpose of this course is to teach educators how to create a marketing plan. The emphasis is on following a ten-step procedure designed primarily for the non-profit sector and learning the theoretical base required to complete the process accurately and proficiently.
- KHP 6650 S(al Ees)9.8.8(e)5.15.1.003 T(9bsu.15.1tr3.3(d.3(prob.3(pd.3(prExer)5.8(ei5(r)7..2(a)-Metab.15.1.li5(r)7m(-)JT1467 T

MARINE BIOLOGY (MB)

Offered at Dauphin Island Sea Lab (DISL) only

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

The courses listed below are taught at Dauphin Island Sea Lab in the summer only. The faculty members are recruited

- MGT 6671 Organizational Behavior (3)
 The study of theories and concepts of individual and group behavior within organizations. The course examines important behavioral processes, including learning, perception, attitudinal structuring, values, motivation, communication, conflict, and social reinforcement. Emphasis is placed on the relationship of these processes to individual and group performance and their implications for managerial decision-making. Prerequisite: All business foundation courses or equivalent.
- MGT 6673 Operations Management (3)
 An analysis of the conditions under which production and management of goods and services take place in business organizations with attention to the delineation of roles played by management and labor in carrying out both production and service delivery, and application of selected quantitative techniques to support those processes. Prerequisite: All business foundation courses or equivalent.
- MGT 6674 Ethics in Business (3)
 Examination of ethical problems and conflicts encountered by managers attempting to fit their organizations to the larger social environment. Addresses ethics, codes of ethics, social responsibility of organizations in domestic and global environments. Prerequisite: All business foundation courses or equivalent.
- MGT 6675 Theory of Organizations (3)
 The study of general business management from a structural standpoint: planning, organization, control, and evaluation. Prerequisite: All business foundation courses or equivalent.

 MATHEMATICS

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

MTH 5512 Discrete Mathematics (3)
This course covers sets, relations, functions, counting, algorithms, Boolean algebra, and graphs.

MTH 5520 Introduction to Graph Theory (3)
The elements of the theory and algorithms of graphs and hypergraphs with motivating examples from computer science, networking, scheduling, biology etc.: algorithms, complexity, data structures, shortest paths, spanning trees, depth-first search, planar graphs, colorings of graphs and hypergraphs. Prerequisites: Linear Algebra, computer programming course, or permission of instructor.

MTH 5522 Numerical Analysis (3)
This course covers topics including finite differences, interpolation, numerical integration and differentiation, solutions of equations of one variable, linear systems, and numerical solutions of ordinary differential equations.

MTH 5524 Real Analysis I (3)
A study of the real number system, completeness, limits, continuity, sequences,
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and connected setsarbitrary topological spaces.Prerequisites: MTH 4424 or 5524, MTH 4426 or 5526 or permission of instructor

MTH 6616 Mathematical Models

tion, the student will produce a demonstration recording using various music technologies suitable for the song marketing in the music industry. A final project including the composition, arranging and production of a musical work is included. The final creative project will be added to the student's Professional Performance Skills Portfolio as part of a comprehensive assessment prior to graduation.

MUS	5554	Literature and Techniques of Sacred Music (3) A comprehensive survey of materials and methods for use in sacred choral music programs.			with school, church, and community choral groups. Emphasis on materials suitable for performers with little previous training or experience.
MUS	5562	Arranging for Band and Chorus (3) This course covers arranging for football shows, concert work, special vocal and instrumental groups. Study of ranges, voicing, and balance. Short-cuts and techniques in reproducing parts.	MUS	6609	Choral Literature (3) A comprehensive survey of music for the choral medium.
MUS	5571	Music for ECE and Elementary School (3) A study of the material and planning techniques for music in grades P-6. Singing, listening, movement, instrument playing, and creative activities will be explored. Multicultural elements, observation, teaching experiences, and practical application of ideas will be included.	MUS	6610	Woodwind Instruments and Their Literature (3) A study of teaching techniques and materials for the bassoon, clarinet, flute, oboe, and saxophone.
MUS	5582	Choral Techniques (3) This course focuses on organizational and rehearsal procedures, choral tone, diction, and choral literature.	MUS	6611	Materials and Techniques for the Intermediate Band (3) A comprehensive survey of the literature for the intermediate band program. Criteria for selecting and evaluating methods will be developed and new approaches to instruction presented.
MUS	5584	Band Techniques (3) A study of rehearsal techniques, band pageantry, jazz band, instrument repair and music literature for band.	MUS	6612	Techniques for Modern School Band (3) An intensive study of the administration, materials, organization, and teaching techniques of school instrumental music programs.
MUS	6600	Instrumental Seminar (1) This course covers rehearsal, evaluation and performance of band literature. Two semesters required of all instrumental music majors.	MUS	6613	Strategies for Performance Preparation
MUS	6601	Choral Performance Seminar (1) A study of the rehearsal, evaluation and performance of choral literature. Two semesters required of choral music majors.			
MUS	6605	Advanced Music Technologies (3) An advanced study of the applications of microcomputers for the music educator in the modern school music program.			
MUS	6606	The Repertoire of the Band (3) An intensive study of music for the band, including an historical overview and intensive score study of representative works.			
MUS	6607	Literature and Techniques for the Beginning Band (3) A selective survey of materials for beginning instrumental music programs. Techniques will be presented for recruiting and retaining students. Performance, listening, and analysis will be included.			
MUS	6608	Literature and Techniques for Volunteer School and Community Choruses (3) A study of music and methods for working			

teacher-made tests. Required of all graduate music majors.

- MUS 6695 Thesis (3)
Three hours may be applied toward fulfilling degree requirements when approved by the student's adviser and the Dean of Graduate Studies and Research. Grading system is Pass / Fail.
- MUS 6696 Practicum (1-3 credit hours)
Supervised experiences related to instruction in music education. Application of skills, concepts and principles acquired in previous courses will be emphasized.

NURSING

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

- NSG 5504 Theories in Nursing (2)
Explores the evolution and importance of knowledge and theory in nursing, mecha-

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- NSG 6620 Advanced Acute Care Nursing of Adults (2)
Focuses on the adult health nursing specialist's role in the acute care setting. Emphasizes theories, concepts, issues, and trends relative to nursing care of the adult in acute care settings. Prerequisites: NSG 5504, 5512, 5515, 6671, 6692. Co-requisites: NSG 6621, 6660, 6691Sp
- NSG 6621 Advanced Acute Care Nursing Preceptorship (3/9)
Clinical preceptorship in adult health nursing in acute care. Co-requisite: NSG 6620, 6660 and 6691Sp
- NSG 6622 Advanced Long-Term Nursing Care of Adults (2)
Focuses on the nursing specialist's role in long-term care. Emphasizes theories, concepts, issues, and trends relative to nursing care of the adult with long-term healthcare needs.

- NSG 6643 High-Risk Maternal/Infant Health Nursing Preceptorship (3/9)
Provides the student the opportunity to apply advanced knowledge and theories to the care of mothers and infants experiencing deviations from normal processes. Prerequisites: NSG 6640, 6641. Co-requisites: NSG 6642, 6649F
- NSG 6645 Family and Cultural Theories in Advanced Nursing Practice (3)
Provides the student with in-depth knowledge of family and cultural assessment. Further analysis of diverse cultures and multi family structures enhance the student's application of advanced nursing interventions. Su
- NSG 6649 Advanced Pharmacology (3)
Presents knowledge and theory critical to management of the pharmacological needs of a variety of populations. Discusses major classification of drugs and protocols for administration. F
- NSG 6655 Synthesis and Evaluation of Advanced Nursing Practice (1)
Presents students with information concerning structure and format of the comprehensive examination. Focuses on the critical thinking and communication skills integrated throughout the curriculums which are the functional base of the professional role. Grading system is Pass / Fail. Prerequisites: NSG 5504, 6660, 6691, 6692 and clinical specialty courses. Sp
- NSG 6659 Adaptation of FNP Role (1)
Presents the conceptual and theoretical base of the advanced practice role of the family nurse practitioners. For the post-master's FNP certificate student. Sp
- NSG 6660 Foundations of Advanced Practice (2)

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velop the student's knowledge of a special area of interest utilizing research-based inquiry. Grading system is Pass / Fail. Pre-requisites: NSG 5504, 6660, 6691, 6692.

NSG 6697 Scholarly Inquiry Practicum II (1/2)
Faculty-guided experience for implementation and evaluation of student's scholarly inquiry. Grading system is Pass / Fail. Pre-requisite: NSG 6696Sp

Thesis Option

Students who plan to progress to doctoral education will be encouraged to pursue the thesis option in preparation for the

NSG 8820 DNP Residency II: Project Development (1)
Allows students to continue development of an evidence-based project proposal with a systems-level impact for the improvement of

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- PA 6603 Economics for Public Management (3)
An introduction to economic theory emphasizing the application of selected microeconomic and macroeconomic theories to issues in public administration.
- PA 6610 Foundations of Public Administration (3)
An overview of the history and intellectual foundation of public administration including the major ideas, developments, theories, concepts, and contributors to the growth of public administration and its practice in the United States. The student is introduced to the case analysis method.
- PA 6620 Theory of Organizations (3)
An introduction to the major theoretical approaches and debates in organization theory including core concepts and key issues arising from the classical and contemporary influences. Emphasis is on the evolution of organization theory in the United States and the elements that distinguish public from private organization.
- PA 6622 Public Policy (3)
The study of the theoretical orientations underlying the public policy process and the conceptual framework for differentiating types of public policies. Students examine current issues and policies from various theoretical and practical perspectives.
- PA 6624 Public Human Resource Management (3)
A survey of the basic principles and functions that include planning, work analysis, position classification, job specifications, recruitment, staffing performance management and appraisal, labor-management rela-

- PA 6650 Governmental Budgeting and Financial Management (3)
A survey of concepts, principles, processes, and practices in governmental budgeting at national, state, and local levels and the inter-relationships of planning, programming, and budgeting strategies.
- PA 6660 Readings in Public Administration (1-3)
Study of problem(s) in a public or non-profit organization using analytical methods with a public policy focus and producing a scholarly paper that contributes directly to the student's curriculum. The Director of the MPA Program must approve the topic. PA 6660 may substitute for a concentration course only one in a student's program and only if taken for three credit hours.
- PA 6665 Leadership in Public Administration (3)
A survey of leadership theories, styles, and strategies in the contemporary public and nonprofit workplace.
- PA 6666 Foundations of Nonprofit Organizations (3)
A survey of the history, theory, and political, organizational, legal/financial, personnel, and service contexts unique to nonprofit management.
- PA 6667 Executive Leadership in Nonprofit Organizations (3)
Managerial tools and professional practices for developing the internal and external capacity of nonprofits. Topics include working with boards, volunteers, and communities; developing partnerships with public, private and other nonprofit organizations; marketing the program; planning special events; and influencing policy directions through lobbying.
- PA 6668 Grant Management for Public and Non-profit Organizations (3)
A survey of grant management processes, principles, and practices in public and nonprofit organizations. Topics include grant identification, proposal development, budgeting, and evaluation.

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PHY	L510	Modern Physics Laboratory (1) Selected experiments in modern physics. Co-requisite: PHY 5510	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.
PHY	5511	Advanced Modern Physics (3) Foundations of statistical physics, solid state physics, nuclear physics, elementary particles, astrophysics, and cosmology. Prerequisites: PHY 5510	
PHY	5520	Mechanics (3) A study of the kinematics and dynamics of particles and systems of particles.	
PHY	5530	Electromagnetic Fields (3) A study of vector fields, dielectric and magnetic media, fields in conductors, electric and magnetic circuit elements. Maxwell's equations and boundary condition problems in one, two and three dimensions.	
PHY	5559	Optics (3) The principles of geometrical and physical optics. Image formation, refraction, diffraction, origin of spectra, polarized light, and optical activity. Prerequisite: PHY 2253 and L253 OR PHY 2263 and L263; Co-requisite: PHY L459	
PHY	L559	Optics Laboratory (1) Selected experiments in geometric and physical optics. Laboratory work emphasizes the basic principles of optics, the use of measuring instruments, and the interpretation of data. Co-requisite: PHY 4459	
PHY	5591	Guided Independent Research (1) A laboratory based physics research project under the direction of a faculty member. The project must culminate in a written report with the results presented at a department seminar.	
PHY	5593	Guided Independent Study (3) An independent study for advanced students under the direction of a faculty member.	
PHY	6600	Advanced General Physics (3) This course explores the scientific view of the world as it has developed from the earliest theories of Aristotle, Euclid and Newton to modern theories such as Einstein's relativity and quantum mechanics. Prerequisite: Eleven hours of college physics or permission of instructor.	
PHY	6625 6626 6627	Specialized Study in Area of Physics (1-3) 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	

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 limits listed under Course Restrictions in General Regulations section.

POST SECONDARY EDUCATION

PSE 6606 Current and Emerging Instructional Technologies (3)

		esses, 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.	PSY 5556	Gerontology (3) The study of aging. Emphasis on biomedical, psychological, and social aspects of middle and late adulthood.
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.	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.
PSE	6695	Thesis (3-6) The thesis must be related to both the students' concentration area and post secondary education. Information regarding thesis guidelines and requirements may be obtained from the Graduate School office. Grading system is Pass / Fail.	PSY 6606	Interventions for Children and Adolescents (3)
PSE	6696 6697 6698	Practicum in Area Post Secondary Education (1-3) Supervised experiences related to instruction in post secondary education. Emphasis on application of skills, concepts, and principles acquired in previous courses. Prerequisite: Completion of coursework and approval of adviser is required.		
PSE	6699	Capstone in Post Secondary Education (3) This course is a culminating experience that helps students integrate and apply the knowledge they have gained through their previous coursework. Emphasis is placed on challenging students to view the post secondary educational process from many perspectives. Students complete field experiences appropriate to their concentration areas and analyze case studies drawn from real-life situations. Students also create a personal philosophy of post secondary instruction. Prerequisites: This course is open only to students enrolled in the Master of Science in Post Secondary Education program. Students may take this class only during their last two semesters of coursework.		

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
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search proposal and the written paper must be approved by the student's advisory com-

278 COURSE DESCRIPTIONS

RED	6674	<p>Literacy in the Content Areas Grades 6-12 (3) The examination of research-based methods and materials for teaching reading and writing in grades 6-12. Field experiences required.</p>	RED	6684	<p>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.</p>
RED	6675	<p>Literacy Instruction for Diverse Populations (3) A study of English language learners and culturally and academically diverse learners and an examination of appropriate instructional strategies for those learners. Field experiences required.</p>			
RED	6678	<p>Literacy and Multicultural Diversity (3) A course designed to help teachers explore the cultural values, language structures, and belief systems of the major racial, ethnic, and national groups found in today's classrooms. Specifically, methods, materials, and evaluation instruments and techniques which would maximize learning efficiency for these culturally diverse groups will be introduced. Children's literature and instructional activities that would increase self esteem and understanding of cultural diverse groups and their contributions to society will be explored.</p>	RED	6686	<p>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.</p>
RED	6680	<p>Organization of School Literacy Programs (3) This course covers the program, organization, and development of basic and supplementary materials for guiding teachers, faculties, and school systems in the continuous evaluation and improvement of curriculum and teaching practices. An in-depth examination of the varied roles of the reading specialist in literacy program. Prerequisite: Formal admission to the Reading Specialist Program.</p>	RED	7778	<p>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.</p>
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GENERAL SCIENCE					
			SCI	5503	<p>Conservation (3) The conservation of natural and human resources with emphasis on population expansion as the major element in a changing ecology.</p>
RED	6682	<p>Internship: Developing Literacy Programs and Coaching Teachers (2) Supervised practice in modeling and managing effective literacy instruction and coaching teachers. Evaluating and designing school-wide needs assessments, literacy programs and environments, and professional development. A minimum of 100 clock hours of clinical experiences. Prerequisite: Formal admission to the Reading Specialist Program. Co-requisite: RED 6680</p>	SCI	5560	<p>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</p>
			SCI	5595	<p>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.</p>
RED	6683	<p>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</p>			

SCI 6625 Specialized Study in Area of Science (1-4)
6626 A study of a problem or problems using
6627 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

SPORT AND FITNESS MANAGEMENT

- SFM 6600 Foundations of Sport & Fitness Management (3)
To introduce graduate students to the field of sport management. The course will discuss various topics related to sport management and the various sport related fields. The course will serve as an introductory course for all students in the M.S. in SFM program and will be taken the first semester of graduate school in order to serve as an introductory course for all students, especially those with no prior knowledge of the field of SFM.
- SFM 6604 Statistical Analysis and Interpretation (3)
The fundamentals, analyses, and interpretation of statistics. Statistical information to include sampling, hypothesis testing, regression, frequency distributions, t-tests, parametric/nonparametric statistical techniques, multivariate data analysis (MANOVA), and others using SPSS and other statistical software.
- SFM 6610 Physical Education, Sport and the Law (3)
The course is designed to provide students an awareness and understanding of basic legal responsibilities of sport managers and coaches.
- SFM 6615 Organizational Behavior & Leadership in Sport (3)
The study of the basic concepts, theories and organization of administration including financial management as applied to sport, physical education, recreation, and intramu-

made by aerobic and anaerobic metabolism to energy production will be examined. The contribution of various physiological variables will be investigated to facilitate an understanding of the physiological basis of human performance.

- SFM 6671 Advanced Exercise Physiology (3)
This course will allow students to experience and explore advanced concepts, topics, and laboratory techniques related to exercise physiology. Material covered in this course will prepare students to interpret, conduct, and share advanced material with their peers. Students will have the opportunity to implement an advanced research project or commence thesis-related research. Prerequisite: SFM 6650
- SFM 6672 Sport Psychology (3)
The course is designed for the student with a vocational interest in athletic coaching within the educational environment. Psychological theories will be applied to the teaching of sports skills and the development of individuals into efficient team units.
- SFM 6673 Ethics in Sport (3)
The course examines ethical matters and issues relating to sport and physical activity.
- SFM 6674 Entrepreneurship in Sport (3)
The course provides students with an awareness and understanding of basic concepts and problems in starting a business.
- SFM 6680 Practicum in Sport and Fitness Mgt. (1-9)
6681 A supervised application of the concepts,
6682 principles, and skills acquired by the students in previous course work. Problems in the area of financial management, personnel supervision, fitness management, sport management, and curriculum development will be identified. Students will explore and identify alternative solutions to problems through group interactions.
- SFM 6690 Internship (3)
A 400-hour supervised experience in planning, staging and evaluating a formal practicum in related field.
- SFM 6691 Research Methods II (3)
This course examines the variety of research methods and reporting methods used in sport & fitness management research. A grade of "B" or better is required. Prerequisite: SFM 6600, SFM 6604, and SFM 6617 with a "B" or better
- SFM 6695 Thesis (3)
The thesis must be related to an educational problem or situation with 133 il[(spoem)5.2e and fitnein

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SPE 6616 Teaching Students with Emotional and

284 COURSE DESCRIPTIONS

tion of individuals. This course addresses includible and excludible items of income and deductions allowed in calculating taxable income. The course requires the writing of a tax research paper which would be suitable for submission to a high quality professional tax journal. Prerequisite or co-requisite: TAX 6684

TAX 6686 Estate and Gift Taxation (3)
This course covers the federal taxation of estates and gifts and provides an introduction to the federal income taxation of estates and trusts. This course will have a tax planning focus. Prerequisite or Co