

---

**ACCOUNTING**

---

- ACT 6625 Specialized Study in the Area of Accounting (1-3)**  
**6626**  
**6627** Study of problem or problems using research techniques. Selection of the problem must be approved by the student's adviser, instructor under whom the study is to be made, and the appropriate dean. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in the General Regulations section. *Prerequisite: All business foundation courses or equivalent and MBA–Accounting Option prerequisites.*
- ACT 6650 Forensic Accounting and Fraud Examination (3)**  
Auditing theory and procedures as applied to fraud prevention, detection, and investigation.
- ACT 6651 Accounting Systems and Controls (3)**  
An advanced study of accounting information systems concepts, applications, and control issues. Case studies will provide the students an opportunity to relate systems concepts to the actual problems encountered in the analysis, design, implementation, and utilization of computer-based information systems.
- ACT 6652 Financial Accounting Research (3)**  
An individual study of specific accounting topics utilizing the accounting authoritative literature and written and oral communication of the results of the research. *A grade of "B" or better is required.*
- ACT 6653 Advanced Financial Reporting & Analysis (3)**  
A study of advanced financial accounting topics from a practical perspective with emphasis on relevant pronouncements by professional organizations and governmental agencies.
- ACT 6654 Advanced Auditing and Assurance Services (3)**  
A study of advanced auditing theory, standards, practices and problems encountered in the practice of public accounting.
- ACT 6655 Advanced Management Accounting (3)**  
A study of accounting as related to making decisions. Course will include readings, cases, and problems dealing with managerial accounting issues, accounting concepts, budgeting and cost control using accounting information in planning and control.
- ACT 6656 Professional Certification (3)**  
A certification review course. This course requires co-enrollment in an independent professional certification review course designated by the School of Accountancy. Verification of enrollment is required. *Prerequisite: Admission to the MBA–Accounting Option program, including completion*

*of all prerequisite courses as described in the current academic catalog.*

- ACT 6691 Managerial Accounting (3)**  
A study of sources and classifications of accounting data, classification and behavior of revenues and costs, use of accounting data for profit planning and cost control, and use of accounting data for special analysis. *Prerequisite: All business foundation courses or equivalent.*
- ACT 6692 Advanced Accounting Problems (3)**  
A consideration of problems relating to pension plans, long-term leasing arrangements, refunding of bonds payable, stock options, allocation of income taxes, changing price levels, cash flow statements, and other financial accounting topics with emphasis on relevant pronouncements by professional organizations and governmental agencies. *Prerequisite: All business foundation courses or equivalent and MBA–Accounting Option prerequisites.*
- ACT 6695 Accounting Research & Communication (3)**  
An individual study of specific accounting topics and written and oral communication of the results of the study. *Prerequisite: All business foundation courses or equivalent and MBA–Accounting Option prerequisites. A grade of "B" or better is required.*
- ACT 6696 Accounting Information Systems (3)**  
An advanced study of accounting information systems concepts and applications. Case studies will provide the students an opportunity to relate systems concepts to the actual problems encountered in the analysis, design, implementation, and utilization of computer-based information systems. *Prerequisite: All business foundation courses or equivalent and MBA–Accounting Option prerequisites.*
- ACT 6698 Advanced Auditing (3)**  
A study of advanced auditing theory, practice and problems encountered in the practice of public accounting. *Prerequisite: All business foundation courses or equivalent and MBA–Accounting Option prerequisites.*
- ACT 6699 Contemporary Issues in Accounting (3)**  
A study of contemporary accounting issues and an analysis of how accounting practice is influenced by regulatory agencies, economic conditions, and professional accounting organizations. *Prerequisite: Prerequisite: All business foundation courses or equivalent and MBA–Accounting Option prerequisites.*

**ADULT EDUCATION**

**ADE 6600 Foundations of Adult Education (3)**

An overview of adult education to give an understanding of characteristics of adults as learners as well as the history, philosophy, and nature of adult education. Includes exposure to fundamental adult education concepts such as lifelong learning, self-directed learning, and contract learning.

**ADE 6605 Computer Based Instructional Technologies (3)**

This graduate level advanced survey course is designed to prepare students to use classroom adaptable technologies. Emphasis is given to historical and social context, computer systems, software, hardware, and curriculum adaptation.

**ADE 6606 Current and Emerging Instructional Technologies (3)**

This course focuses on current and emerging instructional technologies. The emphasis of this class is on the instructional use of production software, desktop publishing, graphics, hypermedia, on-line services, optical technology, and telecommunications.

*si wier002 aong lr(J0ganization so T43 Td [(servic0.2832 Tw 0 -1.293 TD [(ADE )113- andon the )3239ishing, g((Co*

regarding thesis guidelines and requirements may be obtained from the Graduate School office. *Grading system is Pass/Fail.*

- ADE 6696 Practicum in Adult Education (1-3)**  
**6697**  
**6698** Supervised experiences related to instruction in area of specialization. Emphasis on application of skills, concepts, and principles acquired in previous courses. Grading system is Pass/Fail. *Prerequisite: Completion of coursework and approval of adviser are required.*
- ADE 6699 Capstone (3)**  
 This course is a culminating experience that helps students integrate and apply the knowledge they have gained in their program. Emphasis is placed on challenging students to view the adult educational process from many perspectives. Working independently students will create an educational portfolio to demonstrate mastery of program objectives and proof of readiness to receive a master's degree, which will be submitted in portions throughout the term/semester for feedback from the instructor and classmates. An oral presentation will be required. Grading system is Pass/Fail. *Prerequisites: Completion of all core (ADE 6600, ADE 6660, ADE 6670, ADE 6691) and at least four of the six required concentration classes. Students must obtain a 3.0 GPA before entering ADE 6699.*

---

#### ART

---

- ART 5581 Methods and Materials in Art (3)**  
 Teaching methods, selection, organization, and use of art materials.
- ART 5599 Advanced Studio Projects (3)**  
 Supervised study and projects in an area not included in the student's undergraduate studies.
- ART 6605 Seminar in Art History (3)**  
 Historical inquiry into art with emphasis on sources and approaches to the visual arts as they interact with other facets of culture.
- ART 6625 Specialized Study in Area of Art (1-3)**  
**6626** An individualized study with studio art faculty.  
**6627** 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.
- ART 6662 Seminar in Art Education (3)**  
 A review of issues and research in art education and the visual arts.
- ART 6664 Research in Art Education (3)**  
 A review of contemporary research in art education and the presentation of a scholarly paper. *Prerequisite: ART 6662*

---

#### BIOLOGY

---

- BIO 5502 Spring Flora (4)**  
 A survey of vascular plants from different habitats in southeast Alabama. Principles of plant taxonomy, including history and systems of classification and nomenclature, the use of dichotomous keys, and general herbarium techniques. Emphasis is placed on plant identification and habitat types. *Prerequisites: General Biology, General Ecology*
- BIO 5505 Entomology (3)**  
 A study of the orders of insects with the emphasis on morphology, taxonomy, and life cycles. *Prerequisites: General Biology. Co-requisite: BIO L505*
- BIO L505 Entomology Lab (1)**  
 A study of morphology, classification, and identification of insects. A collection is required. *Co-requisite: BIO 5505*
- BIO 5510 Animal Behavior (3)**  
 A study of the classical and current concepts of animal behavior including individual and social behavioral patterns. *Prerequisite: genetics. Co-requisite: BIO L510*
- BIO L510 Animal Behavior Lab (1)**  
 Experimental and observational techniques in behavior. *Co-requisite: BIO 5510*
- BIO 5513 Limnology (3)**  
 A study of the physical, chemical, geological, and biological aspects of freshwater ecosystems as influenced by activities in surrounding watersheds. *Prerequisites: general biology, general ecology, general chemistry. Co-requisite: BIO L513*
- BIO L513 Limnology Lab (1)**  
 Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. *Co-requisite: BIO 5513*
- BIO 5516 Microbial Ecology (3)**  
 A study of the taxonomy, diversity, and ecology of microbial populations in ecosystems, with the emphasis on the roles that they play in biogeochemical cycles, their contributions to metabolic diversity, their interactions with animals and plants, their niches and bioremediation. *Prerequisites: microbiology, organic chemistry. Co-requisite: BIO L516*
- BIO L516 Microbial Ecology Lab (1)**  
 Microbial ecology laboratory techniques including isolation, identification, and enumeration of microorganisms from aquatic and terrestrial environments. *Co-requisite: BIO 5516*
- BIO 5520 Field Vertebrate Zoology (4)**  
 A study of the basics of vertebrate identification, with emphasis on phylogeny, anatomy, morphology,

220 COURSE DESCRIPTIONS

life histories, habitats, distributions, and conservation. *Prerequisites: General Biology, General Chemistry*

**BIO 5521 Population Ecology (3)**

This course covers animal and plant populations,

**BIO 5571 Parasitology (3)**

This course covers the taxonomy, structure, life histories, distribution, pathogenesis, and control of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance. *Prerequisites: Any 3000-level BIO lecture and lab. Co-requisite: BIO L571*

**BIO L571 Parasitology Lab (1)**

A laboratory study of parasitic protozoa, helminths, and arthropods, with the emphasis on those of medical importance. *Co-requisite: BIO 5571*

**BIO 5552 Industrial Hygiene (3)**

Identification and correction of chemical, biological, and physical hazards in and around the workplace. *Prerequisite: Organic Chemistry. Co-requisite: BIO L552*

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

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

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

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

222 COURSE DESCRIPTIONS

**BIO 6617 Seminar in Environmental and Biological  
6618 Sciences (1)**

Presentations on interdisciplinary principles and

offerings. A maximum total of 4 semester hours is allowed for program credit.

**BIO 6691 Research Methodology and Experimental Design (3)**

This course will include hands-on statistical experience emphasizing hypothesis testing using a statistical software system. It will combine several elements of research methodology including developing a grant proposal that will include topic selection, literature search, question formulation, methods, statistics, and a budget. *Prerequisite: Three semester hours in probability and statistics or permission of instructor. A grade of*

224 COURSE DESCRIPTIONS

The study should contribute to the student's program. Preparation of a scholarly paper is required and many involve oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized



correctional problems, community-based correctional philosophy, comparative issues, and contemporary problems related to correctional officers' retention and employment practices.

**CJ 6622 Seminar in Administration of Justice (3)**

A critical examination of the administration of the criminal justice system in America, including the myths and misconceptions it generates, the controversial issues and trends it produces, and the current and future policies and administrative decision making it promotes.

**CJ 6624 Court Administration (3)**

A study of the judicial process from the standpoint of its situational and legal basis, organization and management, and the technical aspects of the judicial function at both trial and appellate levels.

**CJ 6625 Specialized Study (3)**

This course provides the student an opportunity to

*will receive a letter grade of "IP" until the completion of the thesis.*

- CJ 6695 Thesis (3)**  
The completion and oral defense of the thesis.  
*Grading system is Pass / Fail.*

---

**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 6600 Communication and Inf**from thiron aneori2udinpld(t)(p gn093its.633 cr(t)(at)(p)3al d)e05 Tc 0.0.6s6(t2s.63u-to-fac-T1 1 Tf 0 Tw1

- CP 6605 Foundations of Mental Health Counseling (3)**  
A study of the historical, philosophical, societal, cultural, economic, and political dimensions within mental health practice. This course will address the professional identity, functions, and issues facing mental health practitioners: principles, theories, and practice of community intervention and the human services network; fiscal and administrative management of programs; and public policy and governmental relations impacting mental health services.
- CP 6610 Facilitation Skills and Counseling Techniques (3)**  
A focus on the development and application of basic facilitation skills necessary for becoming an effective helping professional. Skills are developed through a combination of didactic, experiential, and demonstrated learning activities to train the beginning counselor in the establishment and maintenance of therapeutic relationships. *Prerequisites: CP 6600 or adviser's approval.*
- CP 6616 Treatment of Addictive Family Diseases (3)**  
A study of typical characteristics of dysfunctional families. Provides the basis for suggested intervention techniques, appropriate areas of family education, and guidelines for effective therapy.
- CP 6617 Treatment Theories and Modalities of Addictive Disease (3)**  
A study of historical perspectives and the most effective treatment and assessment approaches of addictive diseases.
- CP 6620 Readings in Counseling and Psychology (1-3)**  
**6621** An independent exploration of the literature related  
**6622** to verbal and nonverbal communication, listening, and human relations under the supervision of a faculty member. An examination will be required upon the conclusion of the course. *This course may be of-*



hours of direct service with clients. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*

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

This course provides supervised, on-the-job, experiences in Community Counseling. These field experiences are accompanied by weekly, on-campus, supervised sessions. Students must receive individual and group supervision. Course equals 300 clock hours of internship. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*

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

This course provides supervised, on-the-job, experiences in Community Counseling. These field experiences are accompanied by weekly, on-campus, supervised sessions. Students must receive individual and group supervision. Course equals 300 clock hours of internship. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Grading system is Pass/Fail. Prerequisite: Completion of CP 6650 and adviser approval.*

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

This course provides an opportunity for the student to perform a variety of activities that a regularly employed professional counselor in an Addictions Counseling Treatment setting would be expected to perform. Experiences are accompanied by regularly scheduled, weekly group supervision. Course equals 300 clock hours of internship. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Grading system is Pass/Fail.*

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

This course provides an opportunity for the student to perform a variety of activities that a regularly employed professional counselor in an Addictions Counseling Treatment setting would be expected to perform. Experiences are accompanied by regularly scheduled, weekly group supervision. Course equals 300 clock hours of internship. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Grading system is Pass/Fail.*

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

This course provides supervised experiences in a rehabilitation setting. The experience will be accompanied by scheduled on campus supervision with the university supervisor. Course equals 300 clock hours of internship. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Grading system*

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

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

This course provides supervised experience in a rehabilitation setting. The experience will be accompanied by scheduled on campus supervision with the university supervisor. Course equals 300 clock hours of internship. Students may take up to six semester hours of internship per semester with adviser approval. Each student must complete 120 hours of direct service with clients. *Grading system is Pass / Fail. Prerequisite: CP 6650*

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

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

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

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

**CP 6682 Leadership and Advocacy: Hearing Impairment (3)**

The purpose of this course is to develop an appreciation for the organization, administration, and coordination of services for the hearing impaired. Strategies for consulting with various agencies, educating the general public, counseling with hearing impaired and their families as well as approaches for advocating for these populations will be explored. *Prerequisites: CP 6650, CP 6652, PSY 6653. Taken in conjunction with internship.*

**CP 6683 Leadership and Advocacy: Visual Impairment (3)**

The purpose of this course is to develop an appreciation for the organization, administration and coordination of services for the visually impaired. Strategies for consulting with various agencies, educating the general public, counseling with the visually impaired and their families as well as approaches for advocating for these populations will be explored. *Prerequisites: CP 6650, CP 6652, PSY 6653. Taken in conjunction with internship.*

**CP 6685 Case Management (3)**

A study of the case management process, including case findings, service coordination, referral and utilization of other disciplines, and client advocacy.

**CP 6686 Job Development and Placement (3)**

A study of the analysis of job development and placement in the rehabilitation process and related fields.

- CP 6687 Placement of Special Disability Groups (3)**  
A study of effective job development and placement techniques and strategies in the rehabilitation process for disability groups traditionally challenging to place: Blind, Deaf, Hard of Hearing, Mentally Ill, Traumatic Brain Injured, Spinal Cord Injured, Multi-disabled and Learning Disabled.
- CP 6691 Research Methodology (3)**  
The study and evaluation of research methods commonly used in the social sciences. The course will provide information necessary to understand and apply research processes, synthesize knowledge and writing, and plan and organize research problems for interpretation and application of research results. Application of these skills in the form of a written project using the Publication Manual of the American Psychological Association (APA) is required. *Students enrolled in the Counseling and Psychology programs are required to take CP 6691 Research Methodology only at Troy University. This research course may not be substituted with another Troy University research course or one transferred from another university. A grade of "B" or better is required.*
- CP 7700 Advanced Practicum in Group Leadership (3)**  
Supervised training in group leadership, including experiential and didactic activities, focusing on group facilitation. *Prerequisites: CP 6642 and CP 6650 or equivalents and permission of the instructor. Enrollment restricted to Ed.S. students..*
- CP 7701 Seminar in Counseling and Student Personnel Work (3)**  
Individual readings and conferences, group discussions and reports focusing on the advanced student's special interest in counseling and human development. Emphasizes research findings.
- CP 7702 Advanced Theories and Techniques of Counseling (3)**  
An in-depth study of current viable theories of counseling utilizing techniques appropriate for each framework. Some areas to be covered include the cognitive, affective, and eclectic approaches. *Prerequisite: CP 6649 or equivalent*
- CP 7725 Advanced Studies in Counseling (1-3)**  
**7726** A study of a problem or topic using research  
**7727** techniques or a guided program of readings. Preparation of a scholarly paper is required and may involve an oral defense. A specialized study may be substituted for only one required course or elective in a student's program. *Approval by the student's adviser, the course instructor, and department chair is required.*
- CP 7753 Internship: Advanced Counseling (1-3)**  
**7754** This course provides advanced graduate students  
**7755** 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



- CS 6654 Topics in Software Engineering (3)**  
The course extends the topics of the Software Engineering course in which the principles of software development are covered.. This course covers advanced topics in software engineering, including software architecture, design patterns, multi-media software, embedded software engineering, and knowledge-based approaches to software engineering. The course also includes a number of case studies. Participants are to write a paper on a topic in Software Engineering. *Prerequisite: CS 5547*
- CS 6655 Digital Logic Design – Principles and Practices with Emphasis on Testable Semi-custom Circuits (3)**  
Combinational circuit analysis including hazard detection; Number systems and codes; Switching algebra; Combinational circuit design including PLA and MSI techniques; IC logic families; Flip-flop properties; Switching algebra: special properties - symmetric functions, unate functions, threshold functions, Boolean difference, functional decomposition; Introduction to sequential circuits– sequential circuit analysis; Pulse mode sequential circuits - state reduction, incompletely specified machines, state assignment, series-parallel decomposition; Fundamental mode sequential circuits -race, hazards, state assignment; Testing aspects of digital systems - failure and fault models, deterministic test generation for combinational circuits, testing sequential Circuits, state identification, testing memories and complex LSI/VSLI circuits, design for testability techniques: scan techniques, built-in self-test (BST), easily testable network structures; Semicustom and MSI design; Special sequential circuits including sequential integrated circuits. *Prerequisite: CS 5545*
- CS 6656 Design and Testing of Reliable Digital Systems (3)**  
Introduction to digital circuits testing . Fault model and test generation for combinational circuits—fault table, path sensitization, ENF, SPOOF and Boolean difference methods. Fault detection in sequential circuits—state identification sequences and design-



**DRA 6625 Specialized Study in Area of Theatre (1-3)**  
Under the supervision of the faculty course supervisor, the student may pursue an extensive study of a particular area which fits his/her academic needs but is not available in the regular curriculum. Each proposal must be approved the preceding term by the student's advisor, the faculty course supervisor, and the department chair person. *Total credit for any combination of enrollments in these courses may not exceed six semester hours. See semester hour limits listed under Course Restrictions in General Regulations section.*

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

---

**EDUCATIONAL ADMINISTRATION & LEADERSHIP**

---

**EAL 6603 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.

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

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

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

**EAL 6610 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.

**EAL 6663 Internship in Educational Administration I (3)**  
The purpose of this course is to provide students with school-based administrative experience in elementary, middle and secondary grades, as well as central office support functions. Full-time university educational administration faculty and local public school supervisors oversee the intern to ensure field experiences is acquired in the areas of curriculum, instruction, student services, leadership skills, staff development, school and community relations, management skills, and legal responsibilities. *Internship requires a minimum of 300 clock hours and must be completed at the home campus. There must be a minimum of six months from the beginning of this course to the completion of EAL 6664.*

**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 6664 Internship in Educational Administration II (3)**  
The purpose of this course is to provide students with school-based administrative experience in elementary, middle and secondary grades, as well as central office support functions. Full-time university educational administration faculty and local public school supervisors oversee the intern to ensure field experiences is acquired in the areas of curriculum, instruction, student services, leadership skills, staff development, school and community relations, management skills, and legal responsibilities. *Internship requires a minimum of 300 clock hours and must be completed at the home campus. There must be a minimum of six months from the beginning of EAL 6663 to the completion of this course.*

**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 6684 Curriculum Development for Educational Leaders (3)**  
This course prepares school administrators to provide leadership necessary to ensure appropriate cur-

ricula for the schools and for effective teaching and learning. Students will examine the curriculum design, development, implementation, and evaluation cycle.

**EAL 6691 Research Methods (3)**

This course is a study and evaluation of a variety of research methods; including but not limited to quantitative, qualitative, and action research, and reporting formats used in education and the social sciences. *A grade of "B" or better is required.*

---

**ENVIRONMENTAL AND BIOLOGICAL SCIENCES**

---

**EBS 5513 Limnology (3)**

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

**EBS L513 Limnology Lab (1)**

Field and laboratory exercises in lake and stream science, including instrumentation, measurement, sampling, and analysis. *Co-requisite: EBS 5513*

**EBS 5516 Microbial Ecology (3)**

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

**EBS L516 Microbial Ecology (1)**

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

- EBS 5582 Molecular Biology (3)**  
A study of the fundamental principles of chromosomal organization and gene expression, with emphasis on the structure and function of nucleic acids and proteins. *Prerequisites: genetics, microbiology, organic chemistry. Co-requisite: EBS L582*
- EBS L582 Molecular Biology Lab (1)**  
Experimental approaches in molecular analyses of nucleic acids and proteins, with the emphasis placed on common techniques utilized in clinical and research settings. *Co-requisite: EBS 5582*
- EBS 6600 Aquatic Entomology (3)**  
A study of the morphology, physiology, taxonomy, life histories, and ecology of aquatic insects. *Prerequisites: general biology, general ecology. Co-requisite: EBS L600*
- EBS L600 Aquatic Entomology Lab (1)**  
Classification and identification of immature and adult aquatic insects. A collection is required. *Co-requisite: EBS 6600*
- EBS 6601 Environmental and Biological Ethics (3)**  
Examination of major ethical theories as they apply to environmental, biological, and medical issues. The linkage of ethics to decision-making in social, public, and business policy. Course develops skills in understanding value systems and framing ethical positions.
- EBS 6603 Environmental Management (3)**  
Concepts and practices underlying procedures for environmental resource management, including planning, organizing, and conducting programs.
- EBS 6611 Global Pollution and International Environmental Policy (3)**  
An examination of global environmental issues, such as global climate change, ozone depletion, and acid precipitation. This course also deals with alternatives in developing global policies and treaties to address these problems.
- EBS 6612 Environmental Impact Studies/Risk Management 6(l)-1E7**







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

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

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

**ECE 7793 Problem Analysis in ECE (3)**

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

**ECONOMICS**

---

 EDUCATION
 

---

**EDU 6600 Classroom Management and Behavior Intervention (3)**

This course is a study of current theory, research, and practice in psychology, sociology, leadership, and human behavior as related to school age students, the nature of the educational organization, and the role of the teacher in that organization. Emphasis is placed upon the formation of a positive, developmental philosophy for effective management of classroom resources and student behavior as well as the identification of some appropriate methods and techniques to apply this philosophy.

**EDU 6603 Planning For the Classroom (3)**

This course provides students with an overview of the K-12 classroom environment and the planning necessary to establish environments that are conducive for learning.

**EDU 6606 Current and Emerging Instructional Technologies (3)**

This introductory course focuses on current and emerging instructional technologies. The emphasis of this class is on the instructional use of computers, Microsoft Office applications, software, desktop publishing, graphics, hypermedia, and the internet. Prerequisite: permission of instructor.

**EDU 6607 Curriculum Integration of Technology (3)**

This course covers the evaluation, selection, and integration of various instructional software and web-based technologies into curricula, taking into consideration teaching and learning styles while relating technologies to instructional settings, diverse models, and instructional settings.



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

ogy and education. Emphasis is placed on the application of statistical method to research design. Instruction deals specifically with measures of central tendency and variability, probability theory, estimation and significance, correlation and regression, analysis of variance, and chi-square. A grade of "B" or better is required.

**EDU 6695 Thesis (3)**

The thesis must be related to an educational problem or situation. Information regarding the thesis program may be obtained from the Dean of the Graduate School. *This course may be repeated. Grading system is Pass/Fail.*

**EDU 6696 Practicum in Area of Specialization (1-6)**

**EDU 7763 Legal Issues and Ethics in Education (3)**

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

**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)

244 COURSE DESCRIPTIONS

The purpose of this course is to assist graduate stu-

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

**EMBA 6603 Human Resource Management (3)**

An overview of recruitment, selection, training,

- A study of the development of English from the Anglo-Saxon period through the present, with reference to the Indo-European background of English.
- ENG 5513 Modern Short Story (3)**  
An examination of 20th- and 21st-century short stories.
- ENG 5515 Modern Drama (3)**  
A detailed study of selected British and/or American plays written between 1900 and present. Review of production history, subject matter, staging, and dramatic techniques. Several oral and written reports. List of plays may vary with each offering.
- ENG 5516 Nineteenth-Century American Novel (3)**  
A study of representative American novels of the 19<sup>th</sup> century.
- ENG 5526 Modern Poetry (3)**  
A study of 20<sup>th</sup>- and 21<sup>st</sup>- century poetry.
- ENG 5527 Contemporary American Literature (3)**  
An examination of representative American literature from the postmodern period (1960-present), with special emphasis on the diversity of themes, styles, and cultural contexts influencing the literary marketplace. Course readings may vary with each offering.
- ENG 5528 The Age of Johnson (3)**  
A study of the works of Samuel Johnson and his most important contemporaries, from about 1745 to 1798.
- ENG 5530 Shakespeare I: The Tragedies (3)**  
A study of major and minor tragedies, with some attention to non-dramatic poetry. List of plays may vary with each offering.
- ENG 5531 Shakespeare II: The Comedies (3)**  
A study of comedies and romances. List of plays may vary with each offering.
- ENG 5532 Shakespeare III: The Histories (3)**  
A study of history plays, especially those concerning Wars of the Roses. List of plays may vary with each offering.
- ENG 5533 Literary Criticism (3)**  
A study of the major literary critics and their works from classical times to the present.
- ENG 5534 Romantic Period in English Literature (3)**  
A study of Romantic prose and poetry with emphasis on the writings of Blake, Coleridge, Wordsworth, Byron, Keats, and Shelley.
- ENG 5535 The Bible as Literature (3)**  
This course studies select works for the Bible for their literary qualities, composition and preservation techniques, and the historical factors that determined inclusion or exclusion as a sacred text.
- ENG 5542 Advanced Writing (3)**  
An intensive study of and practice in expository and argumentative prose. Requires writing several essays. Some evaluation of other students' writing.
- ENG 5543 Southern Writers (3)**  
A study of works by writers from the American South from colonial times to the present.
- ENG 5552 Medieval and Renaissance English Drama (3)**  
A survey of drama from the Middle Ages and Renaissance, excluding Shakespeare. Begins with brief study of folk and liturgical origins of drama, includes a few medieval mystery and morality plays, and features Renaissance plays by Heywood, Udall, Kyd, Marlowe, Beaumont, Fletcher, Jonson, and Webster.
- ENG 5557 Form and Theory of Nonfiction Literature (3)**  
This course examines the theories behind various forms of nonfiction literature, whether autobiography, biography, the essay, diaries and/or travel writing, with special emphasis on the historical evolution of a particular form. List of readings will vary with each offering.
- ENG 5560 Victorian Poetry (3)**  
A study of Victorian poetry, with emphasis upon the works of Tennyson, Browning, Arnold, and Hardy.
- ENG 5561 Victorian Prose (3)**  
A survey of the works of major Victorian prose writers, with emphasis upon the works of Carlyle, Newman, Mill, Ruskin, Arnold, and Pater.
- ENG 5562 The Arthurian Legend Through the Ages (3)**  
This course will examine the Arthurian legend not only in literary and historical works from its earliest traces in the Middle Ages to the present, but also in archaeology, the visual and decorative arts (especially painting and sculpture), ma s5r3a57vMtof.000 i32 Tw - arcA(e)-1Age ine hh notc8(e)5( )7(pa)to)2(r8008(e h) exaJ 0.0009 T

expand their teaching repertoire by studying curriculum design, assessment measures, learner variables, techniques for teaching grammar/vocabulary/four skills (listening, speaking, reading, writing), and sociopolitical contexts for teaching ESL/EFL.

- ENG 5570 Advanced Survey of Speech (3)**  
This course provides a survey of speech. Explores the impact, purpose, occasion, and audience on written and spoken discourse, and effective listening techniques. Explains theory and techniques of group discussion, directive communication, storytelling, and argument.
- ENG 5571 Advanced Survey of Journalism (3)**  
This course provides a survey of journalism techniques. Explains the style of writing used in different news media, the types of news stories and how they are written, the editing process, the production of print and non-print journalistic media, and the ethical responsibilities of newsgathering organization and reporters.
- ENG 5572 Advanced Survey of Drama (3)**  
This course provides a survey of theater. Explains the history of the theater and the roles of the playwright, director, actors, and technicians.
- ENG 6601 Seminar in Chaucer (3)**  
A close examination of two major works of Chaucer and critical responses to them. Special consideration given to Chaucer's language and versification and the medieval social background to his writing.
- ENG 6603 Seminar in Shakespeare (3)**  
A study of selected tragedies or comedies. Examination of various critical approaches. Extensive reading in relevant criticism. List of plays, as well as genre, may vary with each offering.
- ENG 6605 Linguistic Approaches to Grammar (3)**  
Study of American English from point of view of modern linguistic theories. Special consideration given to structural grammar and its possibilities in classrooms.
- ENG 6606 Theory and Practice of Analyzing Poetry (3)**  
A critical study of representative types of poetry, employing several approaches in analytical process.
- ENG 6607 The Backgrounds of Victorian Literature (3)**  
A study of Victorian literature (1837-1900) as it reflects social, economic, political, educational, aesthetic, and religious concerns.
- ENG 6608 Shakespeare's History Plays (3)**  
A study of eight plays, from *Richard II* to *Richard III*, concerning the Wars of the Roses. Supplemental reading in Shakespeare's sources and in twentieth- and twenty-first-century histories.
- ENG 6609 The Backgrounds of Nineteenth-Century American Literature (3)**  
A study of literature (fiction, nonfiction prose, and poetry) as it reflects key issues, ideas, concerns, problems, and trends of the period. May be taught in conjunction with a course in American history.
- ENG 6610 The Backgrounds of Twentieth-Century American Literature (3)**  
A study of literature (fiction, nonfiction prose, poetry, and drama) as it reflects key issues, ideas, concerns, problems, and trends of the period. May be taught in conjunction with a course in American history.
- ENG 6613 Theory and Practice of Analyzing the Short Story (3)**  
A critical study of representative types of short stories employing theoretical approaches in the analytical process.
- ENG 6617 Dramaturgy I (3)**  
A study of selected classical, period, and contemporary plays (list may vary with each offering). Emphasis on dramatic form, historical perspectives, staging, and production.
- ENG 6618 Dramaturgy II (3)**  
Study of additional classical, period, and contemporary plays (list may vary with each offering). Emphasis on dramatic techniques, character development, directing, staging, and production.
- ENG 6620 Seminar in Restoration and 18<sup>th</sup> Century Literature (3)**  
A study of English prose and poetry in the Restoration and early 18<sup>th</sup> century, with emphasis on Dryden, Behn, Swift, and Pope.
- ENG 6625 Specialized Study in Area of English (1-4)**  
**6626** 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 6627**
- 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

Englishes, language standardization, language variation and change, multilingual education, language planning and policy, group identity/morality, and regional/social dialects.

**ENG 6632 American Realism and Naturalism (3)**

A seminar stressing critical approaches to the major works of such writers as James, Howells, Twain, Crane, and Dreiser.

**ENG 6635 The Victorian Novel (3)**

The study of the content and techniques of representative novels of the period with some consideration of these novels in relation to significant social, philosophical, and literary needs..

**ENG 6636 The American Renaissance (3)**

A seminar stressing critical approaches to the major works of Emerson, Thoreau, Hawthorne, Melville, Poe, and Whitman.

**ENG 6638 Major American Writers: WWI to Present (3)**

A study of major American writers who represent the various currents in American literature and thought from 1917 to present.

**ENG 6641 Theory and Practice of Grammar Studies (3)**

Advanced studies in descriptive grammar in conjunction with sentence structure and standards of usage. Special emphasis upon current procedures for presenting the various systems of grammar (particularly structural).

**ENG 6642 Theory and Practice of Written Composition (3)**

Advanced studies in expository and argumentative writing. Special emphasis upon procedures for presenting methods for organizing and developing various types of essays.

**ENG 6643 Trends in Children's and Young A4(n)56(d).e ofMive 7 LgMiv60 AITT0 1 Tf -0.onde, Mma Td [wVrd [Ey3plG3)Ey3p8(**





*tuted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.*

**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**

---

**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.

**HEA 6612 Community Junior College (3)**

This course covers the rise and development of the community or junior colleg

- HIS 5512 The American Revolution and The New Nation, 1763-1815 (3)**  
Ideas and institutions which led to American independence, the creation of the American union, and the development of a distinctive American culture in the early national period.
- HIS 5513 Antebellum, Civil War and Reconstruction (3)**  
Nationalism, Jacksonian democracy, territorial expansion, slavery and sectional strife, and the result-

**HIS 5551 Modern East Asia (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 5552 History of Africa (3)**

Study of 19th and 20th century political, social and cultural history of the region, including the partition of Africa by European powers and decolonization.  
*Note: May be used for political science credit.*



**HRM 6645 International Human Resource Management (3)**

A survey of theory and practice of human resource management in global firms and issues of cross cultural communication and behavior affecting organizational effectiveness in culturally diverse organizations. *Prerequisite: All business foundation courses or equivalent.*

**HRM 6689 Human Resource Management Internship (3)**

Must be unconditionally admitted to the Master of Science in Human Resources Management program, must have less than one year's work experience in the Human Resources Management field, must not be currently employed in any capacity by a firm or organization sponsoring the internship, must have completed at least four required courses by the start of the semester in which the internship begins (i.e., courses should include HR

Fail.

---

**INTERNATIONAL HOSPITALITY MANAGEMENT**

---

**IHM 6625 Specialized Study in the Area of International  
6626 Hospitality Management (1-3)**

**6627** Study of problem or problems using research techniques. Selection of the problem must be approved by the student's adviser, the instructor under whom the study is to be made, and the appropriate dean. The study must contribute to the student's program. Preparation of a scholarly paper is required and may involve an oral defense. Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program. *Prerequisite: All business foundation courses or equivalent.*

**IHM 6680 Global Marketing Strategy for Hospitality Executives  
(3)**

Application of marketing concepts, principles and procedures for planning, developing, implementing and controlling marketing programs in multinational hospitality organizations. Emphasis is on the matching of organization resources and strengths with global marketing opportunities, and strategies to overcome environmental threats. Examination of marketing and service industries within the context of the hospitality of marketing mix and the implementation of service strategies within hospitality. Strategy applied to planning, analysis and control within the international and multinational hospitality setting; emphasis on situation analysis of customer needs, market position, and competition. *Prerequisite: All business foundation courses or equivalent.*

**IHM 6681 Managing Financial Systems in the Hospitality  
Industry (3)**

The examination of international of financial theories that will assist management policies relative to the objective of maximizing shareholder wealth and to familiarize the student with analytical tools that assist in financial decision making. It includes elements of the foreign exchange market, exchange rate determination, international financial institutions, and the management of the risks associated with international business. *Prerequisite: FIN 6631tnlity*

**ILA 6610 Grant Writing (3)**

This course explores how to write a grant and discusses alternative ways of fundraising. Particular attention will be given to grant writing protocols and procedures, as well as dynamics involved in responding to a Request for a Proposal, and understanding the school system's bureaucratic structures.

*Prerequisite: Admission into an NCATE approved instructional leadership program.*

**ILA 6611 Community Relationships**





258 COURSE DESCRIPTIONS

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



*Restrictions in General Regulations section.*

**IR 6668 Thesis (3)**

**6669** A directed research in selected areas of international relations, based on a student's proposal, related to the student's needs, and with the advice and approval of a faculty thesis adviser, and culminating in a research paper of appropriate depth and scholarship. The final, bound product must be approved by a faculty committee composed of the thesis adviser and a faculty reader. The first course will cover the paper design and supporting research; the second course will be undertaken to support the actual writing of the thesis. *Prerequisites: IR 6601 and the satisfactory completion of 30 semester hours in the MSIR program. Grading system is Pass/Fail.*

**IR 6670 United Kingdom in World Affairs (3)**

An examination of the United Kingdom and its relations with the global community; the course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.

**IR 6672 Germany in World Affairs (3)**

An examination of Germany and its relations with the global community; the course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.

**IR 6675 Central America in World Affairs (3)**

An examination of the Central American region and its relations with the global community; the course will involve the student in the political, cultural, and social aspects of regional states and their relations with other states.

**IR 6676 Japan in World Affairs (3)**

An examination of Japan and its relations with the global community; the course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.

**IR 6677 China in World Affairs (3)**

An examination of China and its relations with the global community. The course will involve the student in the political, cultural, and social aspects of the state and its relations with other states.

**IR 6681 Tribalism and Colonialism in Africa (3)**

An investigation of the politics that govern tribalism and colonialism, the sociological influences it has induced, and how the two concepts impact the people of Africa today.

**IR 6685 Terrorism and Political Violence (3)**

An examination of the origins and significance of contemporary political violence with an emphasis on the phenomenon of terrorism. The course employs an interdisciplinary, case-study approach.

**IR 6686 Drug Politics in the Americas (3)**

An investigation of the issues surrounding the trafficking of illicit narcotics in the Western Hemisphere, with special attention to the Andean region and those states which act as conduits to the vast market in the United States; the course examines

both the political and security problems arising from the drug trade, as well as the basic debate concerning the formulation and implementation of U.S. drug policy.

**IR 6687 Free Trade and Economic Integration in the Western Hemisphere (3)**

A critical analysis of the origins, development, consolidation and limitations of free trade and economic integration in the Western Hemisphere; special attention will be given to the complex political, economic and social forces that support, hinder and otherwise shape such international economic agreements.

**IR 6688 Islamic Fundamentalism (3)**

An advanced seminar dealing with the theology and practice of Islam and its impact on international, legal, political, security, and social issues.

**IS 6679 Management Information Systems (3)**  
Conceptual and practical



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 from many colleges and universities within and outside Alabama. The courses are identified by an MB prefix.

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

A study of the natural history, systematics, and morphology of marine invertebrates from a variety of habitats in the Gulf of Mexico. Participation in extended field trips is part of the course. *Prerequisites:* BIO 1101, L101, 2229, L229, CHM 1143, L143

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

A study of the biology of marine vertebrates emphasizing systematics, behavior, physiology, and ecology of local forms. *Prerequisites:* BIO 1101, L101, 2229, L229, CHM 1143, CHM L143

**MB 5504 Marine Botany (4)**

A general survey of algae and vascular plants associated with the marine and estuarine environment. *Prerequisites:* BIO 1101, L101, 2229, L229, CHM 1143, L143

**MB 5506 Marsh Ecology (4)**

A study of the floral and faunal elements of various marine marsh communities. *Prerequisites:* BIO 1101, L101, 2229, L229, CHM 1143, L143

**MB 5521 Marine Technical Methods (2)**

An introduction to the hardware of marine science, sampling procedures, processing, station location, and field equipment maintenance/operation.

**MB 5523 Marine Ecology (4)**

Lecture and laboratory studies of bioenergetics, community structure, population dynamics, predation, competition, and speciation in marine ecosystems. *Prerequisites:* BIO 2229, L229, CHM 1143, L143

**MB 5526 Coastal Zone Management (2)**

An examination of specific laws and regulations which govern the coastal zone and how coastal processes affect management issues. *Prerequisites:* BIO 1101, L101, 2229, CHM 1143, L143

---

**MASTER OF BUSINESS ADMINISTRATION**

---

**MBA 6611 Business Strategy (3)**

This course is the capstone course in the MBA program. It integrates the skills and knowledge devel-

ethics, codes of ethics, social responsibility of organizations in domestic and global environments. *Prerequisites: All business foundation courses or equivalent.*

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

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

**MGT 6677 Systems Management (3)**

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

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

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

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

The course examines the foundational concepts of leadership, reviews traditional theories of leadership, and investigates critical issues in leadership and motivation as they apply in the contemnd i5u in(tivrk-J 0.0009 Tc 0.0621558 0 -1.153 TD {andn}f(onte. tra Ai)6id tc(tionid t )7(dlop)6(



**MTH 5542 Abstract Algebra II (3)**

This course covers the elementary theory of rings, polynomial rings, divisibility, unique factorization domains. Integral domains, ideals, factor rings, divisibility in integral domains. Elementary theory of fields. Extension fields. *Prerequisite: MTH 4441 or MTH 5541.*

**MTH 5551 Mathematical Statistics I (3)**

A study of probability theory, sample spaces, random variables, mutual exclusion, independence, conditional probability, permutations and combinations, common discrete and continuous distributions, expected value, mean, variance, multivariate distributions, covariance, Central Limit Theorem.

**MTH 5552 Mathematical Statistics II (3)**

A study of the fundamentals of the theory of statistics, the Central Limit Theorem, point estimation, sufficiency, consistency, hypothesis testing, sampling distributions, confidence intervals, linear regression models, interpretation of experimental results, Bayesian Estimation. *Prerequisite: MTH 4451 or MTH 5551.*

**MTH 5560 Topology (3)**

An introduction to metric and topological spaces and associated topics, separation axioms, compactness, and connectedness.

**MTH 6600 Modern Topics in Mathematics (3)**

An investigation of current topics in mathematics that are generally not covered in regularly offered graduate courses in the mathematics graduate curriculum. *Prerequisites will be determined by the topic under investigation.*

**MTH 6601 Metric Education for Elementary Teachers (3)**

A study of the materials and methods program of



- 5521 **Saxophone**  
 5522 **Trumpet**  
 5523 **Horn**  
 5524 **Trombone**  
 5525 **Euphonium**  
 5526 **Tuba**  
 5527 **Percussion**  
 5528 **Guitar**
- MUS 5543 **History of the Band in the United States (3)**  
 The history of the band in this country from the early military bands through town, industrial, church, professional, circus, fraternal, school, and college bands.
- MUS 5553 **Techniques and Literature of Brass Instruments (3)**  
 A study of the techniques of all the brass instruments, the use of extant methods and literature for developing these techniques, and their applicability in individual and group public school teaching situations.
- MUS 5554 **Literature and Techniques of Sacred Music (3)**  
 A comprehensive survey of materials and methods for use in sacred choral music programs.
- MUS 5562 **Arranging for Band and Chorus (3)**  
 This course covers arranging for football shows, concert work, special vocal and instrumental groups. Study of ranges, voicing, and balance. Short-cuts and techniques in reproducing parts.
- MUS 5571 **Music for ECE and Elementary School (3)**  
 A study of the materials and planning techniques for music in grades P-6. Singing, listening, movement, instrument playing, and creative activities will be explored. Multicultural elements, observation, teaching experiences, and practical application of ideas will be included.
- MUS 5582 **Choral Techniques (3)**  
 This course focuses on organizational and rehearsal procedures, choral tone, diction, and choral literature.
- MUS 5584 **Band Techniques (3)**  
 A study of rehearsal techniques, band pageantry, jazz band, instrument repair and music literature for band.
- MUS 6600 **Instrumental Seminar (1)**  
 This course covers rehearsal, evaluation and performance of band literature. Two semesters required of all instrumental music majors.
- MUS 6601 **Choral Performance Seminar (1)**  
 A study of the rehearsal, evaluation and performance of choral literature. Two semesters required of all choral music majors.
- MUS 6605 **Advanced Music Technologies (3)**  
 An advanced study of the applications of microcomputers for the music educator in the modern school music program.
- MUS 6606 **The Repertoire of the Band (3)**  
 An intensive study of music for the band, including an historical overview and intensive score study of representative works.
- MUS 6607 **Literature and Techniques for the Beginning Band (3)**  
 A selective survey of materials for beginning instrumental music programs. Techniques will be presented for recruiting and retaining students. Performance, listening, and analysis will be included.
- MUS 6608 **Literature and Techniques for Volunteer School and Community Choruses (3)**  
 A study of music and methods for working with

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

**MUS 6630 Collaboration for Inclusion (3)**

This course is designed to provide advanced students with an in-depth study of current literature and research on collaboration and consultation as a service delivery model to meet the challenge of educating students with disabilities in the regular classroom. Specifically, this course focuses on collaborative-related issues for teachers who work with students with disabilities. The course is premised on the federal mandate that requires educators to employ the interactive framework established by PL 94-142 (now IDEA) to assure that all students are educated in the least restrictive environment. *Prerequisite: MUS 4460, SPE 3340 or SPE 6640*

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

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

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

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

**MUS 6633 Conducting Recital (1)**

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

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

- NSG 6604 Theories in Nursing (2)**  
Explores the evolution and importance of knowledge and theory in nursing, mechanisms for developing and critiquing theory, and the analysis and application of theories in nursing practice.
- NSG 6605 Healthcare Economics (2)**  
An introductory course in health economics, designed to provide the student with the elements of economic analysis as applied to the area of healthcare.
- NSG 6606 Curriculum Development in Nursing Education (3)**  
Provides content and learning experiences that enable students to understand all phases of the curriculum development process. Explores principles of curriculum development and major historical influences on nursing curricula. Includes in-depth analysis of the basic components and determinants of curriculum development as well as the concepts of balance, continuity, and sequence.
- NSG 6610 Power, Politics, and Policy Formulation in Nursing (3)**  
Analysis of the relationship of power, politics, and policy formulation to nursing and healthcare.
- NSG 6612 Advanced Health Assessment (3)**  
Designed to prepare an expert clinician in health assessment of patients across the lifespan. Advanced content in history and interviewing processes, physical examination, and documentation of assessment findings are included. The clinical diagnostic process is emphasized. *Co-requisite: NSG 6613 (FNP) or NSG 6618 (CNS).*
- NSG 6613 Advanced Health Assessment Preceptorship (3/9)**  
Preceptorship course designed for clinical application of skills in advanced health assessment, clinical diagnosis and management, and health promotion, maintenance/disease prevention role of the primary care family nurse practitioner. *Prerequisites: NSG 6671 and 6649 Co-requisite: NSG 6612.*
- NSG 6614 Rolere**

**NSG 6631 Computer Based Communication (3)**

An examination of communication technologies in

*students only: NSG 6670.*

**NSG 6691 Research Methodology (3)**

Evaluates the principles of the research process for both quantitative and qualitative research. Emphasis is on the utilization and generation of research and evidence-based practice relevant to advanced nursing. *A grade of "B" or better is required.*

**NSG 6692 Data Analysis Techniques in Research (2)**

Examines basic statistical methods for analyzing, interpreting, and evaluating data. The focus is on developing knowledge necessary to critically evaluate research reports and selected data.

**NSG 6695 Thesis (4 minimum)**

*Prerequisites: NSG 6691, 6692. Pass/Fail.*

**NSG 6696 Scholarly Inquiry Practicum I (1/2)**

Faculty-guided experience to further develop the student's knowledge of a special area of interest utilizing research-based inquiry. *Grading system is*

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

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

Prepares students to lead and manage the challenges of a global, dynamic, and changing healthcare environment. Analyzes and evaluates nursing leadership and evidence-based management theories critical to leading in today's healthcare systems. Focuses on integration and application of concepts of leadership, management, business planning, and evaluation of population-based efforts to provide affordable quality care. Prepares the student to utilize these concepts in articulating a vision encompassing evidence-based care. *Prerequisites: NSG 8802*

**NSG 8824 Bioethical Issues In Healthcare (2)**

Focuses on the consistent themes in both bioethics and the laws related to bioethics. Includes: issues in morality, types of ethical theory, individual rights (freedoms), informed consent, patient-professional relations, right to privacy, professional ideals, and the four ethical principles of autonomy, non-maleficence, beneficence, and justice. Analyzes the leadership role of the DNP in the areas of preventative ethics and utilization of decision models for resolving ethical conflicts are analyzed. *Prerequisites: NSG 8805, NSG 8815, and NSG 8820.*

**NSG 8826 Diversity and Social Issues in Health Care Systems (2)**

Explores health disparity and diversity as a result of economics, class structures, cultural background and social stigmas. Critically analyzes the impact of local, national, and international social issues on health care delivery. Examines prominent social issues for the development of appropriate clinical guidelines and policy for patients, groups, and organizations. Analyzes healthcare models for accuracy and appropriateness based on evidence of cultural health seeking behaviors of groups. *Prerequisites: NSG 8815, and NSG 8820.*

**NSG 8830 DNP Residency III: Project Implementation (3-5)**

Integrates knowledge of nursing theory, evidence based nursing practice, physiologic and pathophysiologic foundations, ethical and legal principles and healthcare systems in an intense practice immersion within an area of advanced practice specialty nursing. Requires implementation of approved Residency Synthesis Project. *Prerequisites: NSG 8815, NSG 8820.*

**NSG 8840 DNP Residency IV: Project Evaluation (3-5)**

Integrates knowledge of nursing theory, evidence-based nursing practice, physiologic and pathophysiologic foundations, ethical and legal principles and healthcare systems in an intense practice immersion within an area of advanced practice specialty nursing. Analyzes the evaluation process for the measurement of clinical outcomes at the population, systems, and organizational levels. Requires evaluation of the Residency Synthesis Project. *Prerequisites: NSG 8815 and NSG 8830. Co-requisite: NSG 8850.*

**NSG 8850 DNP Residency Project Dissemination (3)**

Emphasizes the synthesis, critique and application of evidence to support quality clinical or organizational practices. Requires completion of a final report to the Residency Project Committee and presentation to the faculty.

Objectives: 1. Analyze the synthesis, critique and application of evidence to support quality clinical or organizational practices. 2. Complete a final report to the Residency Project Committee and presentation to the faculty.



theoretical and practical perspectives.

**PA 6624 Public Human Resource Management (3)**





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

**PSE 6696 Practicum in Area Post Secondary Education  
6697 (1-3)**

**6698** 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

This course covers the procedures used in obtaining, organizing, integrating, and utilizing educational and occupational information including electronic media. Career development theories, scope of the world of work, decision making strategies and counseling for career development including information on the relationship between career choice and life style. Attention is given to the appraisal of interest, aptitude and personality measurements.

**PSY 6636 Wechsler Scales (3)**

An exploration of the theory, nature, and measurement of human intelligence. Techniques of administering the Wechsler scales are taught include but are not limited to the following: WAIS-III, WISC-III, WPPSI-R, WIAT, and WMS. The student administers, scores, and interprets test batteries and writes satisfactory reports. *Prerequisites: PSY 6645 and adviser approval.*

**PSY 6637 Stanford Binet and Others (3)**

This course requires the administration, scoring, interpretation and reporting of psycho-educational batteries, including Binet IV, Woodcock Johnson, PIAT, and Kaufman. This course will include measures of intelligence, academic achievement, adaptive behavior, behavior rating, and perceptual-motor skills. The primary focus will be upon those instruments commonly used in schools excluding the Wechsler scales. *Prerequisites: PSY 6645, PSY 6636, and adviser approval.*

**PSY 6638 Philosophy of Cognitive Development (3)**

- PSY 6688 Medical/Psychosocial Aspects of Disability (3)**  
A study of medical and psychological information related to the disabled persons and to their families. Aspects of personal and social adjustment will be emphasized.
- PSY 6693 Psychological and Educational Statistics (3)**  
A study of variety of descriptive and inferential statistics commonly used in psychology and education. Emphasizes application of statistical methods to research design. *A grade of "B" or better is required. Prerequisite: ADE/CP/EDU 6691*
- PSY 7700 Professional School Psychology (3)**  
This course provides a



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

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

*tuted 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. *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.*

---

**SECONDARY EDUCATION**

---

- SED 5544 Internship Seminar (3)**  
 This course provides interns an opportunity to develop analytical thinking skills through examining broad educational issues and concerns, topics on the state and local levels, and those of personal interest. The scope of the course ranges from juvenile law, classroom management, professionalism, professional development for teachers, and other course topics. This course must be taken concurrently with internship.
- SED 6695 Secondary Internship Grades 6-12 (6)**  
 The Professional Internship Program is the culminating clinical field-based experience for students seeking certification in a teaching field. The Professional Internship Program provides the student with the opportunity to conduct classes and assume the role of a teacher while receiving supervision from a classroom teacher and a university supervisor for a period of one full semester.

---

**SOCIOLOGY**

---

- SOC 5517 Minorities in the U. S. Social Structure (3)**  
 An analysis of the role of racial and cultural minorities in American society. Contributions of anthropology, sociology, and psychology to theories of minority/majority group relations.
- SOC 5520 Sociological Theory (3)**  
 An introduction to the area of sociological theory with emphasis on theorists, their works and contributions to modern sociological theory.
- SOC 5530 Social Problems in Contemporary Society (3)**  
 A study of the changing social structure, urban and rural problems, self-help and citizen participation, indigenous leadership and urban-rural fringe problems.
- SOC 6625 Specialized Study in Area of Sociology (3)**  
**6626** A study of a problem or problems using research  
**6627** techniques. Selection of problem must be approved by the professor under whom the study is to be made and the Dean of the Graduate School. The study should contribute to the student's program. Preparation of a scholarly paper is required and may involve oral defense. *Total credit for any combination of enrollments in these courses may not exceed six semester hours. A specialized study may be substituted for a required course only once in a student's program. See semester hour limits listed under Course Restrictions in General Regulations section.*



- SFM 6615 Organizational Behavior & Leadership in Sport(3)**  
In this course students will study the basic concepts, theories and organization of administration including financial management as applied to sport, physical education, and recreation.
- SFM 6616 Sport Finance (3)**  
This course is designed to provide students with information concerning advanced theory in finance, accounting, and managerial control of budgets.
- SFM 6617 Research Methods I (3)**  
This course allows students to explore literature and current research in sport and fitness management. A grade of "B" or better is required. *Prerequisites: SFM 6600 and SFM 6604*
- SFM 6620 Physical Fitness: A Critical Analysis (3)**  
This course is designed to prepare the student for the American college of Sports Medicine (ACSM)

- 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, 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.  
**6682**
- SFM 6690 Internship (3)**  
A 400-hour supervised experience in planning, staging and evaluating a formal practicum in related field.
- SFM 6691 Research Methods II (3)**  
This course examines the variety of research methods and reporting methods used in sport & fitness management research. A grade of "B" or better is required. *Prerequisite: SFM 6600, SFM 6604, and SFM 6617 with a "B" or better*
- SFM 6695 Thesis (3)**  
The thesis must be related to an educational problem or situation within sport and fitness management. Information regarding the thesis program may be obtained from the Dean of the Graduate School.

---

### SPECIAL EDUCATION

---

- SPE 5544 Internship Seminar (3)**  
This course provides interns an opportunity to develop analytical thinking skills through examining broad educational issues and concerns, topics on the state and local levels, and those of personal interest. The scope of the course ranges from juvenile law, classroom management, professionalism, professional development for teachers, and other course topics. This course must be taken concurrently with internship. *Co-requisite: SPE 6654 or SPE 6655*
- SPE 6609 Content Enhancement (3)**  
This methods course emphasizes inclusive teaching practices that combine an interactive instructional sequence with a teaching device for teachers of secondary level students (6-12) with mild disabilities. This course focuses on content enhancement routines that help teachers carefully organize and deliver content area information.
- SPE 6610 Research Trends and Issues in Special Education (3)**  
This course is designed to provide advanced students with an in-depth study of significant research in special education. Specifically, this course focuses on (a) methodological issues that relate to descrip-

placed on assessment, instructional models, transition programming, and data-based instructional decision making. *Prerequisite: SPE 6640 or equivalent.*

**SPE 6630 Collaboration for Inclusion (3)**

This course is designed to provide advanced students with an in-depth study of current literature and research on collaboration and consultation as a service delivery model to meet the challenge of educating students with disabilities in the regular classroom. Specifically, this course focuses on collaborative-related issues for teachers who work with students with disabilities. The course is premised on the federal mandate that requires educators to employ the interactive framework established by PL 94-142 (now IDEA) to assure that all students are educated in the least restrictive environment. *Prerequisite: SPE 3340 or SPE 6640*

**SPE 6631 Legal Issues in Special Education (3)**

This course provides the special educator with relevant back-ground on the legal issues impacting students with disabilities. Advocacy issues and collaborative roles of administrators, parents, teachers, and significant others in implementing federal legislation will be addressed. The text will be supplemented by more recent case law and policy developments in special education. *Prerequisite: SPE 3340 or SPE 6640 (or equivalent)*

**SPE 6632 Assessment and Individual Programming (3)**

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

**SPE 6635 Meeting Instructional Needs Through Technology (3)**

This is an advanced survey course in the classroom-adaptable and assistive technologies that are associated with the personal computer and other technologies that assist the learner with disabilities in accessing the teaching and learning environments. This course includes information on the assessment of assistive technology needs as a means of considering assistive technology and ma

rative Teacher will work collaboratively with the general education teacher, special education teacher, IEP committee, and other professionals to design and deliver an appropriate education for students with disabilities. *Prerequisites: Completion of all core and teaching field areas for persons who do not currently hold an undergraduate teaching certificate in Collaborative Teacher, 6-12.*

**SPE 6697 Field Based Research Project (3)**

The purpose of this course is to provide graduate students with an opportunity to design, implement, and write about quantitative or qualitative research related to their own teaching. This course will be



posal for a substantive study related to the improvement of instructional services. *A grade of "B" or better is required.*

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

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