

COURSE DESCRIPTIONS

Anthropology

ANTH (RP/MUSM) 5403 Interpretation/Education through Museum Methods

Prerequisites: Senior or Graduate standing, or permission of instructor. Museum perspectives and approaches to care and interpretation of cultural resources, including interpretive techniques of exhibit and education-outreach materials, and integrating museum interpretation/education into public school and general public programming. Class projects focus on special problems for managing interpretive materials in a museum setting. Graduate level projects or papers involve carrying out research relevant to the Museum's mission and relating to current Museum goals.

ANTH 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

ANTH 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Art

ART 6133 Contemporary Art Issues

An examination of topics and concerns relating to the art of our time. Discussions will be based on such topics as: art's place in today's culture, the changing art market, the role of the artist, the semantics of art, the role of art museums and galleries, new concepts in materials utilization, legal issues regarding artworks, the autonomy of art, and issues of ownership. Special emphasis is placed on the failure of Modernism and the promise of Post-Modern Art.

ART (JOUR) 6163 Survey of 20th Century Photography

An investigation of the development of photography as a fine art or commercial art form or as a medium for social documentary. Fine art photography is emphasized with the work of significant advertising, commercial, and documentary photographers also included.

ART 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Biology

BIOL (PHSC) 5003 History and Philosophy of Science

A course in the historical development and philosophical basis of modern science. May not be taken for credit after completion of BIOL (PHSC) 4003 or equivalent.

BIOL 6014 Concepts of Biological Science

The general concepts, theories, and laws which are fundamental to a synthesis of modern biological knowledge. Emphasis will be placed on those areas which are particularly pertinent to and have application in the teaching of science in secondary schools. \$10 laboratory fee.

BIOL 6023 Conservation Workshop

First summer term. A workshop for teachers of secondary science. Topics to be covered include the natural resources, their use and conservation, man's interaction with the environment, and the limiting factors affecting man. Workshop includes both lecture and field experience. Special project will be the development of a conservation project which will have application in the teacher's home environment.

BIOL (PHSC) 6813 Science, Technology and Human Values

Prerequisite: Bachelor's degree in one of the biological sciences. (Note: Those lacking such degree should enroll in LA 6813). An interdisciplinary introduction to the role of science and technology in shaping world views and addressing societal problems. Team taught by scientists and humanists.

BIOL 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

Chemistry

CHEM 6034 Concepts of Chemistry

Prerequisite: Eight hours of chemistry or consent of instructor. Emphasis will be primarily directed to those inorganic/analytical concepts common to secondary school chemistry courses: atomic theory, bonding, the periodic law, states of matter, reaction stoichiometry, kinetics, thermodynamics, acid-base chemistry, electrochemistry, nuclear chemistry, etc. Three hours of lecture and three hours of laboratory. \$10 laboratory fee.

CHEM 6881-4 Workshop

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

College Student Personnel

CSP 6013 American Higher Education in Transition

An overview of the history, philosophy, purposes, and functions of higher education in the United States. The purpose of the course is to familiarize students with the events, issues, and ongoing debates that have shaped and continue to shape higher education in the United States.

CSP 6023 Introduction to College Student Personnel Work

This course will provide the student with an understanding of the breadth of college student personnel work and introduce the student to the theory and practice of student personnel work as a profession.

CSP 6033 Theory and Practice in College Student Personnel

This is an introductory course in college student development theory. Students will be provided with a foundation to understand student development theory and how to apply it in a practical way in their work with college students.

CSP 6043 American College Student

An overview of the literature and research on American college students. After reviewing the literature on student transition to college, student collegiate experiences, student development in college, and college impact on students, the focus will be on effective institutional policies and practices in enhancing positive student college experiences, learning, and other desirable outcomes.

CSP 6053 Legal Issues for Professionals in College Student Personnel

This course is designed to teach a process of legal analysis. Benchmark cases will be used to illuminate basic issues. The student will be exposed to a range of administrative problems at the postsecondary level that entail legal implications. The course experiences should ultimately help current and prospective administrators to envision the legal dimensions of collegiate-level decision processes.

CSP 6063 Special Topics: College Student Personnel Capstone Seminar

Prerequisite: A minimum of 24 hours must be earned toward program requirements. This capstone seminar is designed to provide graduating college student personnel students with the opportunity to discuss current issues in student affairs practice with the goal of preparing them as new professionals in the field.

CSP 6073 Counseling with College Students

An exploration of ways adults construct meaning, including intellectual, moral, and personality development. Gender and culture will be highlighted as they affect learning and development.

CSP 6081-3 Practicum I in College Student Personnel

Prerequisite: A minimum of 18 hours must be earned toward program requirements. This course provides students the opportunity to participate in a supervised professional experience. The student will process, discuss, and share experiences gained during the practical internship to integrate the experiences with the student development theory.

CSP 6091-3 Practicum II in College Student Personnel

Prerequisite: Successful completion of CSP 6081-3. A practical, applied course where students will participate actively in a supervised professional experience. The student is expected to process, discuss, and share experiences gained during the professional experience and to integrate those experiences with the student development theory.

CSP 6191-6 Thesis in College Student Personnel

Prerequisite: 27 hours must be completed toward the program requirements. The student will complete an applied or theoretical research project which incorporates all the elements of an original research proposal and concludes with findings which add to the body of knowledge in the area of college student personnel.

CSP 6113 Research Design and Analysis

The student will learn to interpret, analyze, and evaluate research reports in professional journals and will understand the principles which underlie effective scientific investigation.

CSP 6123 Assessment and Evaluation in Higher Education

An in-depth survey of the outcomes assessment and institutional effectiveness movement and including assessment techniques, instruments selection, analysis of assessment data, and reporting of assessment findings.

CSP 6133 Ethical Leadership in Higher Education

A study of how educational policy is developed through micro and macro political elements, an examination of ethical and value issues confronting educational leaders, and a demonstration of how individual values drive ethical behavior and ethical decisions.

CSP6143 Administration in College Student Personnel

Administration in College Student Personnel is a required course for the Masters of Science in CSP degree. The course provides an overview of the relevant theories in the management, organization, and leadership of institutions of higher education, particularly in areas of student affairs administration. Emphasis will be placed on the application of theory and knowledge to administrative practices of human resource management, financial and budgeting, and facilities management. Students will also examine student affairs units in their functional contexts, including, but not limited to, such areas as admissions, financial aid, orientation, counseling, academic advising, support services, residence life, judicial services, campus activities, greek life, multicultural and international student affairs, disability services, service learning, religious programs, and commuter and non-traditional student services.

CSP6881-3 Special Problems (Workshop) for College Student Personnel

Special Problems (Workshop) in CSP is an elective course that will provide a study of contemporary issues or problems associated with the field of student affairs and higher education in general. Students will explore these issues, the impact they have on the field of student affairs, and to be introduced to best practices that can be applied to address the issues from a developmental point of view. Since the topic for the workshop will vary each time offered, a student can repeat this course, earning a maximum number of six graduate hours of credit.

CSP 6893 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Counseling

COUN 6003 School Organization and Leadership for the Counselor

The course will examine how schools are organized and supported from the federal level to the local school. The concepts of leadership and its role at all levels will be a focal part of this study. Students will begin to examine their leadership style and dispositions.

COUN 6011 Instructional Leadership/ Counseling

This course will focus on the "hard and soft" skills of instructional leadership, counseling, and micro-counseling. The teaching and learning process will be the focus of student work. Students will learn how to observe and coach for excellence in teaching and learning. The reflective practice model will serve as a basis for theory and skill development.

COUN 6012 Assessment and Appraisal

This course will focus on an in-depth study of norm reference and criterion reference assessments. Group, standardized assessment and individual assessment will be addressed. Student will study assessment techniques, instruments selection, analysis and interpreting assessment data, as well as appropriate ways to report data.

COUN 6113 Action Research and Data Analysis for High Performing Schools

This course will center on the analysis of data with emphasis on student achievement and whole school accountability. Data-driven decision making will be examined. Students will look at research methodologies with a focus on action research and the role of the leader in facilitating action research in the field.

COUN 6133 Principles of Curriculum Development

This course will focus on national, state, and local curriculum standards. Students will gain an understanding of the alignment issues of curriculum, instruction, and assessment as they prepare a curriculum artifact based on the principles of curriculum.

COUN 6143 Organizational Change/Role of School Counselor

This course will examine theories of change looking at research and case studies of first and second order change. Students will gain strategies as leaders of change as schools work to move closer to higher performance. Students will study a current change taking place in a school.

COUN 6152 Professional Portfolio

Students will develop a portfolio organized to provide evidences demonstrating proficiency supporting the standards for Arkansas licensure requirements for counselors. This professional portfolio will be a comprehensive collection of artifacts reflective of the program of study designed to meet the standards for school counselors.

COUN 6202 Ethics and Legal Issues for the School Counselor

This course will prepare school counselors to address the challenge of legal and ethical decisions, while keeping the students' welfare in mind, by abiding by the Code of Ethics set forth by the American School Counseling Association (ASCA) Ethical Standards, as well as the American Counseling Association (ACA) Ethical Standards. The students will gain knowledge of and an understanding for Arkansas school law in dealing with legal issues.

COUN 6213 Developmental Counseling: Theory and Application

This course provides an overview of the basic tenets of life span development and how they relate to school counseling. Developmental Counseling contains a balance of research, theoretical clarity, and practical application as students move through the stages of lifesaving development.

COUN 6224 Counseling Skill Development I

Students will examine basic skills and characteristics involved in becoming effective school counselors; will articulate, practice, and demonstrate basic mastery of these skills and characteristics; will develop a systematic approach to the counseling process; and will assess personal strengths and limitations related to becoming professional school counselors.

COUN 6233 School Counseling Programs

This course will review the basic concepts and principles of elementary, middle, and secondary school counseling programs. Specific focus will be on program accountability, development, and leadership of school-based counseling programs.

COUN 6243 Group Counseling Strategies in the Schools

Students will be expected to draw relationships among the concepts and principles of individual, family, and group counseling and apply that knowledge to a school setting.

COUN 6253 Career Development/Academic Advising

This course prepares school counselors to facilitate the public school's role in career development; through awareness to planning, and decision making within the educational context. A focus is placed on student academic development and advising, as well.

COUN 6263 Teaming, Collaboration, and Advocacy

This course emphasizes the values, knowledge, and skills required for effective advocacy and brokering of services through consultation and collaboration. Use of data to identify needs, remove barriers and mobilize resources from the school and the community in order to increase options for students are primary themes through the course. Special attention is placed on equal access of all students to rigorous educational experiences.

COUN 6302 School Counseling Internship

This course provides graduate students an opportunity to engage in supervised, on-the-job experiences in a school setting. The internship includes scheduled on-campus group supervision designed to provide guidance, analysis, and evaluation of this capstone field experience. Internship fee of \$50.00 for 2 hour course.

COUN 6303 Counseling Skill Development II

Students will examine intermediate skills and characteristics involved in becoming effective school counselors. Students will articulate, practice, and demonstrate mastery of these skills and characteristics; will develop a systematic approach to the counseling process; and will further assess personal strengths and limitations related to becoming professional school counselors.

COUN 6304 Internship

This course provides graduate students an opportunity to engage in supervised, on-the-job experiences in a school setting. The internship includes scheduled on-campus group supervision designed to provide guidance, analysis, and evaluation of this capstone field experience. Internship fee of \$100.00 for 4 hour course.

COUN 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis. May be repeated for a maximum of 4 hours.

Driver Education

DE 5613 Driver and Traffic Education I

Prerequisites: Arkansas Teaching Certificate, valid driver's license, good driving record, or approval of department head. This course is designed to prepare teachers to organize and teach driver education and traffic safety programs in secondary schools. This course provides a survey of materials and methods of instruction plus evaluation of textbooks and in-car training of a student driver. Two hours lecture, two hours laboratory. May not be taken for credit after completion of DE 4613 or equivalent.

DE 5543 Driver and Traffic Education II

Prerequisites: Arkansas Teaching Certificate, valid driver's license, good driving record, or approval of department head. This course is designed to prepare teachers to organize and teach driver education and traffic safety programs in secondary schools. It includes administration, supervision of personnel, design of facilities, and a research project. May not be taken for credit after completion of DE 4543 or equivalent.

Early Childhood Education

ECED 5063 Organization and Administration of ECED Programs

The study of different organizational plans for early childhood programs from infancy through age nine. It includes discussion of school philosophy, goals, curriculum, housing, staffing, budget, policies for admission, grouping, health, licensing requirements, and school-community relations.

ECED 6323 Designing Quality Early Literacy Experiences (birth - age 9)

A study of the theory, materials, methods, and instructional techniques applicable to language development and emergent literacy experiences during the early childhood education years - birth through age nine. This course examines developmentally appropriate integrated and interdisciplinary approaches to literacy development encompassing writing, reading, and oral language development of young children in the home and school environment.

ECED 6363 Theory and Practice in Early Childhood Education

The maturationist, behaviorist, and constructivist theories will be presented. Content will include the guidelines for developmentally appropriate practice and effective teaching in early childhood settings. Emphasis will be placed on the implementation of these theories into practice including the role of play and developmental approaches to curriculum development.

ECED 6523 Survey of Research in Early Childhood Education

Prerequisite EDFD 6003. Seminar will be based on current interest of students and will swerve as means of synthesizing their experiences. An interdisciplinary approach will be taken to exploring current issues and problems in early childhood education, current happenings as they relate to the issues and major research efforts to support programs. A critical review examination and evaluation of investigations, studies, and other research finding which have special significance for early childhood education will be explored. The implications of this research for educational practice will also be considered.

ECED 6603 Psychosocial Development: Infancy, Childhood, Family

Prerequisite: Recent undergraduate/graduate class in child development or permission of instructor. Social/emotional development in infancy and early childhood and the development of parent-child relationships; developmental sequences in infancy and early childhood in relation to lifespan development issues; impact of various disabilities upon attachment and interaction and upon general family adjustment; methods of promoting optimal psychosocial and family development within the context of cultural variations.

Economics

ECON 5073 World Economic Systems

On demand. Prerequisites: ECON 2003, 2013, or consent of instructor. A study of the institutional framework of an economic system selected by the instructor. The course includes a visit to the country being studied. May not be taken for credit after completion of ECON 4073 or equivalent.

ECON 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

ECON 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis. Educational Foundations

EDFD 5052 Teaching Exceptional Learners

A study of the major areas of exceptionality including the learning and physically disabled, mentally retarded, and the gifted, and of their special needs in a school program. May not be taken for credit after completion of EDFD 4052.

EDFD 6003 Educational Research

An introduction to educational research procedures, including formulation of research problems, research designs, data collection, and analysis of data.

EDFD 6043 Current Issues in Human Learning

A detailed study of some current issues in human learning which reflects the concerns of classroom teachers as they apply psychology to teaching. Course is designed to serve both elementary and secondary teachers.

EDFD 6053 The At-Risk Child in the School Environment

A seminar designed to investigate the characteristics of the at-risk student and to investigate the teaching strategies utilized to meet the needs of the at-risk student in the regular classroom.

EDFD 6063 Educational Assessment

Provides the knowledge base for construction, selection, administration, and interpretation of formal, informal, and alternative forms of student assessment.

EDFD 6203 Supervision of Instruction

The techniques of instructional supervision including evaluation and improvement of classroom instruction.

EDFD 6313 Principles of Curriculum Development

A study of the elements and principles of curriculum design and construction for teachers at the elementary and secondary school levels. The course considers the theoretical concerns of curriculum planning as well as the activities involved in carrying theory into practice.

EDFD 6403 Social and Historical Factors in Education

The study of education and various social groups, including the effects of various societies and educational systems.

EDFD 6503 Classroom and Behavioral Management

A seminar to examine research for sources and types of models available for managing the classroom. Development of classroom management skills and systems by applying human development, learning, teaching, and communication principles. This class will review the research and professional literature on classroom management.

EDFD 6703 Guidance in Education

Designed to provide the classroom teacher with the background knowledge and skills to provide classroom assistance in areas related to the school's guidance program.

EDFD 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

EDFD 6993 Project in Educational Research

Study and directed research on a topic selected by the student in consultation with a supervising professor.

Educational Leadership

EDLD 6002 Administrative Law

An introduction to the legal environment of the school. The course will cover legal concepts, regulations, and codes for school operation. Special emphasis will be given to administrators' knowledge of the proper implementation of policies, regulations, rules, and procedures in public schools.

EDLD 6013 School Organization and Leadership

Principles and concepts of school organization and the role of the educational leader.

EDLD 6023 Organizational Change

A study of change theory as it affects educational organizations with specific attention given to the public school system. The use of programs such as ACSIP in directing change within the school.

EDLD 6102 School Finance

A study of school budgeting, accounting techniques, and funding formulas.

EDLD 6113 Action Research and Data Analysis

This course will address the theories and practice of research with emphasis on action research for school improvement. The course will focus on gathering, accessing, and interpreting information needed for effective decision-making for high performing schools.

EDLD 6153 Communication with School and Community

Identification, study, and analysis of concepts and procedures to develop and implement effective communication and public relations strategies between the school and the community. Also includes community analysis, school issues, public responses, and policy development.

EDLD 6203 Education and Society: Continuities and Discontinuities

The relationship between society and educational systems including factors which have either positive or negative effects upon the stability of the system.

EDLD 6253 Instructional Leadership

Principles of effective instructional leadership including the role of the principal as an instructional leader focusing on the critical friend and clinical supervision models, curriculum and data analysis. This course is a prerequisite for EDLD 6402.

EDLD 6303 Technology as an Administrative Tool

The role of technology in improving the education system is the focus of this course. The use of technology by the administrator to improve the quality of education managerially and instructionally is the emphasis of the course.

EDLD 6313 Principles of Curriculum for School Leadership

A study of the elements and principles of curriculum design and construction for principals at the elementary, middle and secondary school levels. The course considers the school leader's role in curriculum development, implementation and evaluation.

EDLD 6352 Physical Environment of Schools

A study of the effects of the physical environment of the school upon instruction and learning. The course will include the development of physical plants conducive to and effective for learning.

EDLD 6402 Working with the Marginal Performer

Prerequisite: EDLD 6253. The application of supervision in working with teachers with marginal success is the focus. The course will include a study of mentoring and teacher evaluations systems.

EDLD 6552 Administrative Internship

Directed on-the-job activities. Designed to give instructional leaders experience in the various subsystems composing the education system. Internship fee of \$50.00 for 2 hour course.

EDLD 6554 Administrative Internship

Directed on-the-job activities. Designed to give instructional leaders experience in the various subsystems composing the education system. Internship fee of \$100.00 for 4 hour course.

EDLD 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

EDLD 6992 Professional Portfolio

Students will develop a portfolio organized to provide evidences demonstrating proficiency supporting the standards for Arkansas licensure requirements for building level administrators. This professional portfolio will be a comprehensive collection of artifacts reflective of the program of study designed to meet the standards for school leaders.

EDLD 7003 Seminar in Systems Issues

This course focuses on system issues and the resulting development of coherent educational policy for public elementary and secondary schools that unifies purpose. This focus is primarily at the state level, where formal responsibility lies, but it concerns federal and district policy as well as school practice.

EDLD 7013 The Superintendency and Central Office

The scope and function of the central office will be the focus of this course. Theory and practice from the central office/superintendent's perspective of such areas as superintendent-board relations, public relations, strategic planning, professional negotiation, special programs administration, leadership style, and school climate.

EDLD 7022 Building a Leadership Community

School leaders must have the knowledge, competence, and belief system to positively shape a school's culture. This requires a thorough understanding of purposeful, systematic change and skills in positive interpersonal relationships, collaboration, verbal and non-verbal communication, conflict resolution, leadership teams and organizational management.

EDLD 7023 School Board Relations

The study of school board-administrator relationships and procedures with emphases on community relations, the politics of education and functioning cohesively as an educational, policy-making group.

EDLD 7033 School Personnel and Business Management

Principles, processes and procedures of school personnel management and business management are probed. Issues and topics investigated include supervision, evaluation, recruitment, staff development, salary and contractual obligations, attendance accounting, APSCN procedures, financial accounting, and property accounting.

EDLD 7101 Administrative Internship in Educational Facilities

This is a field study experience providing the student with an opportunity to synthesize and apply knowledge, and develop and practice administrative skills as they relate to educational facilities and transportation services. It applies reflective practice under the direction of a practitioner mentor and a university advisor and utilizes existing sites, new sites, and planning sessions. An internship fee of \$25.00 for 1 hour.

EDLD 7112 Advanced Legal Issues

This course focuses on the United States Constitution and its effects on due process requirements for public schools. Issues include the relationship of constitutional, statutory and case law to public school districts particularly in these areas of current concern - students' rights and responsibilities, teachers' rights and responsibilities, procedural and substantive due process, and liability.

EDLD 7113 Seminar in Current Issues

The course will investigate contemporary issues and trends related to educational leadership and examine problems and solutions that are of current concern for school organizations. These issues include school finance alternatives, serving a diverse constituency, meeting individual and group needs, accountability issues, instructional issues including the integration of technology, evaluation of instructional issues, evaluation of programs and personnel, and changing policies at the state and national level.

EDLD 7122 Educational Facilities

This is a study of school facilities and transportation planning and concepts, management and practices. Topics include how to use and maintain present school plants, keeping the board and community informed as to building needs, selecting architects, financing construction, safety and security issues, and developing educational specifications.

EDLD 7132 School Finance for District Level Administration

Economics and school finance: Basic concepts include local, state and federal support of education, the Arkansas State Financial System (APSCN), budgeting and projecting, financing capital items, centralization vs. site-based concepts, fiscal management, auditing, and communicating finance to the board and community.

EDLD 7143 School Accountability Systems

This course probes the essential elements of a monitoring system designed to help schools and districts acquire the information they need to better realize their intentions for improvement, accountability, and school restructuring.

EDLD 7201 Administrative Internship in District Level Finance

A field study experience providing the student with an opportunity to synthesize and apply knowledge, and to develop and practice administrative skills as they relate to the principles of district level school finance. It applies reflective practice under the direction of a practitioner mentor and a university advisor and focuses on existing state and district level financial practices, resources, and responsibilities. An internship fee of \$25.00 for 1 hour.

EDLD 7202 Administrative Internship in School Accountability Systems

A field study experience providing the student with an opportunity to synthesize and apply knowledge, and develop and practice administrative skills as they relate to school accountability systems. It applies reflective practice under the direction of a practitioner mentor and a university advisor and focuses on a monitoring system model. An Internship fee of \$50.00 for 2 hours.

Educational Media

EDMD 5033 Introduction to Instructional Technology

An introductory media and media methods course providing an introduction to: instructional computer utilization; applications of principles of graphic design in the production of audiovisual materials; the application of visual literacy, communications, and learning theory to the selection, evaluation, and use of instructional materials; and the development of mediated units of instruction.

EDMD 6113 Microcomputers for Education and Training

A study of the use of the microcomputer for administrative, instructional, and classroom management uses in educational and training settings. School-wide classroom and training facility uses and applications in the following areas will be emphasized: word processing, spreadsheet and database management, test bank, grade book, test scoring, CAI, skill development, and desktop publishing.

EDMD 6123 Audio in Media

Prerequisite: EDMD 5033 or similar introductory course in instructional technology or by permission of instructor. A study of the technology of sound and the process of producing sound for media programs. The course covers the principles and equipment of sound, pre-production planning, production processes and post-production editing, and the technology of sound. In addition to the study of the principles of sound production, students will apply theories and principles in the production of media programs through a series of production assignments.

EDMD 6133 Production of Instructional Materials

Prerequisite: EDMD 5033 or approval of instructor. Advanced applications, techniques, and processes involved in the production of instructional materials. Emphasis is placed on the production of completed education and training units using digital images, electronic presentations, and web-based materials.

EDMD 6163 Internet Resources

An introduction to resources available on the Internet as well as the tools needed to navigate within a worldwide network of computers, made up of thousands of autonomous networks which are separately administered.

EDMD 6233 Administration of Media Programs

Prerequisite: Nine hours of graduate study or approval of instructor. A study of the administrative responsibility involved in the organization, implementation, and operation of comprehensive media programs. Specific areas of study include: planning, budgeting, selection of equipment and materials, computerizing administrative functions, proposal development, and program evaluation. Will include site visits to area media centers and training facilities.

EDMD 6303 Survey of Instructional Media

A survey of current media research, educational media formats, and utilization of mediated materials in education and training, and the development of instructional programs.

EDMD 6313 Instructional Design and Product Development

Prerequisites: Nine hours of instructional technology courses, including a media production course. A study of the systematic approach to the design, production, evaluation, and utilization of instructional materials. Using design models and general theoretical knowledge specifications, students will write goals and objectives, identify learner characteristics, conduct task analyses, define learning conditions and instructional events, produce instructional products to meet identified needs, and field test finished products.

EDMD 6333 Instructional Multimedia

A study of the human, persuasive, and communicative elements of the medium of television; the effective use of television in education and training; and the writing, producing, directing, and editing of one-camera and studio television productions.

EDMD 6433-6 Practicum in Educational Media

An overall view of the field of educational media and instructional technology. Current journals, trends, and authorities in the field will be studied. Students will participate in 120 hours (3 hrs. credit) OR 240 hours (6hrs. credit) of practical work in media centers or training facilities, will visit selected media centers, and will submit a research paper or project on current trends in educational media or instructional technology. Required of all library media specialist students. \$50 supervisor travel fee for 3 credit hours and \$100 supervisor travel fee for 6 credit hours.

EDMD 6503 Computer Literacy

An introduction to computer hardware and software. An overview of computer uses in society with an emphasis on computers in education. An introduction to programming with a high-level language.

EDMD 6513 Computer - Based Instruction

An introduction to the use of the computer as a classroom tool to aid in individual instruction. A survey of existing programs available to support courseware development and use on microcomputers, minicomputers, and mainframes. Hands-on experience in developing an interactive instruction lesson. May not be taken for credit after completion of COMS 4513/5513 or equivalent.

EDMD 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

EDMD 6891-4 Instructional Technology Curriculum

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

EDMD 6993 Thesis Research/Seminar

Formal presentation of directed research on a thesis topic selected by the student in consultation with a supervising professor. Prior to the final defense of a written thesis, students will be required to present their research study in a seminar to faculty, staff, and other graduate students.

Electrical Engineering

ELEG 5113 Digital Signal Processing

Prerequisites: ELEG 3123 and 3133. The study of discrete-time signals and systems, convolution, correlation, z-transform, discrete-time Fourier transform, analysis and design of digital filters. Students write software for real-time implementation of selected signal processing algorithms using DSP microcomputer hardware. May not be taken for credit after completion of ELEG 4113.

ELEG 5133 Advanced Digital Design

Advanced Digital Design. Prerequisites: ELEG 2131, 2133. A project oriented course in which students develop and test custom digital integrated circuits (IC's). An overview of IC design systems and manufacturing processes is presented. Economics of IC production are discussed. Hardware Description Languages (JDL's) are studied. Students design and implement custom IC's using schematic based entry and HDL's. May not be taken for credit after completion of ELEG 4133.

ELEG 5153 Communication Systems II

Prerequisites: ELEG 4143. Continuation of ELEG 4143. Design and analysis of analog and digital communication systems, taking into account the effects of noise. Random variables, random processes, analog and digital communication systems in the presence of noise. May not be taken for credit after completion of ELEG 4153.

ELEG 5313 Modern Control Systems

Prerequisite: ELEG 4303. A continuation of ELEG 4303 Control Systems. topic includes: frequency response design, state space analysis, controllability, observability, state space design, robustness and introduction to digital control. May not be taken for graduate credit after completion of ELEG 4313.

Elementary Education

ELED 5063 Educators in Industry

A course devoted to career awareness in relation to the modern workplace. It is conducted in cooperation with local businesses and industries. The course involves research, on-site instruction, and work experience.

ELED/SEED 5333 Teaching Reading and Study Strategies in the Content Area

This course is designed to provide pre-service and in-service teachers and administrators with a knowledge of reading factors as they relate to various disciplines. Content of the course includes estimating students' reading ability, techniques for vocabulary, questioning strategies, and developing reading-related study skills.

ELED 6036 Science, Mathematics, and Reading: An Interdisciplinary Approach K-4

This course stresses the learning of science, mathematics, and reading as active, integrated, constructive processes involving experimentation, investigation, communication, reasoning and problem solving.

ELED 6323 Survey of Teaching Reading

A broad overview of the major viewpoints about reading and current approaches to literacy instruction, with emphasis on its socio-psycholinguistic aspects.

ELED 6343 Literacy Assessment and Intervention

Prerequisite: ELED 6323. A study of current practices in assessing literacy development and providing intervention in identified problems. Emphasis will be placed on interactive procedures to determine and facilitate the use of reading and writing processes.

ELED 6363 Clinical Practices

Prerequisites: ELED 6323 and ELED 6343. Clinical experiences in reading. Students diagnose and treat reading disability cases under supervision. A \$12.50 fee will be assessed to cover the cost of supplies and materials.

ELED (LBMD) 6403 Literature for Children and Adolescents

An in-depth study of printed and other types of materials available for use in the elementary grades and middle school. Emphasizes the selection and use of materials to stimulate and improve learning.

ELED 6423 Current Issues in Early Childhood Education

A survey of contemporary developments in early childhood education with emphasis upon individual teaching problems. Intensive study in areas of individual interest and need.

ELED 6523 Survey of Research in Elementary Education

A critical review, examination, and evaluation of investigations, studies, and other research findings which have special significance for elementary education. The implications of this research for educational practice will also be considered.

ELED 6603 Teaching Social Studies in the Elementary School

Focuses on new and emerging elementary and middle school social studies curricula. Special emphasis on improving the instructional program.

ELED 6803 Teaching the Exceptional Child

Focuses on curricular content and teaching materials for the exceptional child. Special consideration is given to developing more effective teaching methods and materials for the atypical child.

ELED 6823 Introduction to Learning Disabilities

A study designed to teach a recognition of behavioral characteristics of children who have perceptual problems. This course also includes information about prescribed referral procedures and gives an overview of diagnostic, and prescriptive instruction.

ELED 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

ELED 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

ELED 6991 Thesis Research

Directed research on a thesis topic. If the six-hour thesis (ELED 6996) has not been completed during the semester(s) of enrollment, the student must register for ELED 6991 during subsequent semesters in which he/she is receiving faculty assistance with the thesis and/or using University library facilities.

ELED 6996 Thesis Research

Directed research on a thesis topic selected by the student in consultation with a supervising professor.

Emergency Management and Homeland Security

EMHS 5003 Principles and Practice of Disaster Relief and Recovery

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Students who have taken EAM 4003 can not take EMHS 5003 for credit. Recovery issues are studied in regard to relationships with ethical, medical, economic and environmental considerations. Initial, short-term, and long-term recovery efforts are examined along with group exercises utilizing best practices.

EMHS 5043 Disaster and Emergency Management Ethics

Prerequisites or corequisites: EAM 1003 and 1013 or consent of instructor. Students who have taken EAM 4043 can not take EMHS 5043 for credit. Involves a study of a variety of types of ethical theory (teleological, deontological, distributive theories of justice, natural law), review of specific ethical dilemmas related to disasters, professional ethics, overcoming biases, avoiding discrimination, and developing sensitivity. Detailed ethical case studies will be conducted.

EMHS 5053 Community Management of Hazardous Materials

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Students who have taken EAM 4053 can not take EMHS 5053 for credit. Addresses chemical properties of hazardous materials and wastes; legal requirements for their handling, storage, transportation, and disposal; and methods for protecting employees, facilities, and the community.

EMHS 5991-3 Special Problems and Topics

Prerequisites or acceptable equivalencies; EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Students who have taken EAM 4993 must have approval from the Department Head regarding the topic for credit in EMHS 5993. The topics will vary to reflect the dynamic changes in the emergency management discipline.

EMHS 6003 Design and Management of Preparedness and Mitigation Systems

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Reviews the needs and concepts for well structured design and management processes for preparedness and mitigation systems in both the public and private sectors utilizing best methods for implementation.

EMHS 6013 Technology for Comprehensive Emergency Management

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Covers the technologies that are applied during each of the phases of emergency management. This can include information management, message handling, Geographic Information Systems (GIS), the Global Positioning System (GPS), material release modeling, situational analysis, and hazard analysis tools.

EMHS 6023 Risk and Vulnerability Assessment for Business and Industry

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Covers the hazards and threats that businesses and industry face regarding security, safety, and business continuity. The scope of threats and businesses studied range from local to international. Risk analysis, vulnerability, recovery, and business continuity plans will be examined.

EMHS 6033 Foundation of Leadership

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Examines the past and present models of leadership. Topics include current context for leadership and personal leadership styles. Case studies are utilized in both the public and private sectors in relation to emergency management.

EMHS 6043 Contemporary Issues in Emergency Management

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Emphasizes and analyzes the practical aspects of problems facing the emergency manager. Topics could include compliance issues with regard to Homeland Security, the National Incident Management System, the National Response Plan and other national initiatives.

EMHS 6053 Legal Issues in Emergency Management

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Involves research, analysis, and discussion of laws that affect emergency management. Emphasis will be placed on the legal obligations of the emergency management professional utilizing case studies and contemporary examples.

EMHS 6063 Principles of Hazard and Emergency Management

Provides an overview of hazards theory, emergency management fundamentals, and the science of various hazards. Both natural and technological hazards are studied with the perspective of emergency management. Some of the topics include earthquakes, tsunami, volcanoes, floods, wildfires, terrorism, tornadoes, winter storms, and hurricanes.

EMHS 6073 Introduction to Terrorism

Prerequisites or corequisites: EMHS 6063 or EAM 1003 and 1013 or consent of instructor. This course is an overview of terrorism in which students will explore various aspects of terrorism in a Post 9/11 world leading to a basic understanding of a global phenomenon. Subject matter will include the history of terrorism, its strategies, and why those strategies, and why those strategies are effective. The student will examine the psychology of fundamentalist religious movements and extreme political organizations. While studying the effects of terrorism, the student will examine governmental concerns, preparedness and response operations and the politics of dealing with terrorism.

EMHS 6103 Research Design and Methods

Prerequisites or corequisites: EAM 1003 and 1013 or EMHS 6063 or consent of instructor. Demonstrates the comprehension of research, design, and methods. Qualitative and quantitative methods are discussed along with the utilization of the scientific method. Professionalism and models for research are also covered.

EMHS 6303 Thesis Research

Prerequisite: Completion of the 21-hour professional component including EMHS 6103 or consent of instructor. Creates a research proposal resulting in the design of the thesis. The topic and design is developed with the approval of a supervising professor and committee.

EMHS 6311-3 Thesis Seminar

Prerequisite: EAM 6303. This is a variable credit class that can be repeated for a total of three credits. It is required to complete three hours for graduation. Students will be required to develop and defend a formal thesis as approved by the supervising professor and committee. The thesis will be presented in a seminar to faculty, staff, and other graduate students.

EMHS 6403 Action Research Practicum I

Prerequisite: Completion of the 21-hour professional component including EMHS 6103 or consent of instructor. Creates a research proposal resulting in the design of the action research project. The topic and design is developed with the approval of a supervising professor and committee.

EMHS 6413 Action Research Practicum II

Prerequisite: EAM 6403. Students will be required to develop and defend the action research project as approved by the supervising professor and committee. The defense will be presented in a seminar to faculty, staff, and other graduate students.

EMHS 6881-3 Workshop

Prerequisite: Permission of the instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

EMHS 6891-3 Independent Study

Prerequisite: Permission of advisor who will direct the independent study. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

English

ENGL 5023 Second Language Acquisition

An investigation and analysis of the theoretical foundation of learning a second language as a guide to the effective teaching of English to limited English proficiency (LEP) students. May not be taken for credit after completion of ENGL 4023.

ENGL 5083 Seminar: English Language

Course content will vary. May be taken for credit after completion of ENGL 4083 or ENGL 5083 if course content differs.

ENGL 5093 Seminar in Creative Writing

Opportunity for students to refine style and technique in a genre of creative writing. May be repeated for credit after completion of ENGL 4093 or ENGL 5093 if course content varies.

ENGL 5213 American Folklore

A study of the forms and subjects of American folklore; folklore scholarship and bibliography; field work in collecting folklore. May not be taken for credit after completion of ENGL 4213.

ENGL 5283 Seminar: World Literature

Course content will vary. May be taken for credit after completion of ENGL 4283 or ENGL 5283 if course content differs.

ENGL 5383 Seminar: American Literature

Course content will vary. May be taken for credit after completion of ENGL 4383 or ENGL 5383 if course content differs.

ENGL 5483 Seminar: British Literature

Course content will vary. May be taken for credit after completion of ENGL 4483 or ENGL 5483 if course content differs.

ENGL 5683 Seminar in Women's Studies

Course content will vary. May be taken for credit after completion of ENGL 4683 or ENGL 5683 if course content differs.

ENGL 5703 Teaching English as a Second Language

An investigation and practice in teaching different levels of English grammar, oral communication, comprehension skills, reading, and composition to foreign students. May not be taken for credit after completion of ENGL 4703.

ENGL 5713 ESL Assessment

An introduction to the tools, techniques, and procedures for evaluating the English proficiency and language development of ESL students. May not be taken for credit after completion of ENGL 4713.

ENGL 5723 Teaching People of Other Cultures

An examination of cultural diversity in Arkansas and the United States, designed for prospective ESL teachers. May not be taken for credit after completion of ENGL 4723.

ENGL 6003 Introduction to English Graduate Study

An exploration of the ideas, methods and resources appropriate to the study of English language and literature. May not be taken for credit after completion of LA 6013.

ENGL 6013 Structure of the English Language

A study of the grammatical system of English through three different approaches: traditional, structural, and transformational-generative.

ENGL 6023 Composition Theory and Practice.

A study of composition theory, practice, and pedagogy.

ENGL 6033 Rhetoric

A study of the history, theory, and application of rhetoric.

ENGL 6083 Seminar in Linguistics

Course content will vary. May be taken for credit after ENGL 6083 if course content varies.

ENGL 6213 Topics in Literature

Examination of various topics through the intensive study of selected literature. May be repeated for credit if course content varies.

ENGL 6283 Literature and Society

A contextual study of selected works designed to explore the ways in which literature reflects and shapes society. May be repeated if course contents varies.

ENGL 6813 Directed Readings

A study of literary works selected from the M.A. in English Examination Reading List.

ENGL 6881-6 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

ENGL 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

ENGL 6993 Thesis Research

Prerequisite: Approval of a thesis plan by the Head of the Department of English and the Dean of Graduate Studies. Directed research on a thesis topic selected by the student in consultation with a supervising professor. Students enrolled in the M.A. in English may repeat ENGL 6993 for credit.

ENGL 6996 Thesis Research

Prerequisite: Approval of a thesis plan by the Head of the Department of English and the Dean of Graduate Studies. Directed Research on a thesis topic selected by the student in consultation with a supervising professor.

Fisheries and Wildlife

FW 5003 Principles of Wildlife Management

Prerequisite: A course in ecology or permission of instructor. Principles of managing wildlife resources with emphasis on population ecology, habitat evaluation and manipulation, wildlife values, and the administration of wildlife resources and resources agencies. Lecture three hours.

FW 5014 Forest Ecology and Management

Prerequisite: FW (BIOL) 3114. An in-depth coverage of ecological interactions in forested ecosystems. Lectures cover biotic and abiotic factors that influence development and species compositions of forest stands. Wildlife habitat relationships in forested ecosystems will also be discussed. Laboratories will familiarize students with field techniques and management activities important in the major forest types of Arkansas. Lecture two hours, lab four hours. \$10 laboratory fee.

FW 5024 Limnology

Spring. Prerequisite: A course in ecology. A study of physical and chemical processes in fresh water and their effects on organisms in lakes and streams. Laboratory sessions and field trips demonstrate limnological instrumentation and methodology. Lecture two hours, laboratory four hours. \$10 laboratory fee.

FW 5034 Geographic Information Systems in Natural Resources

Prerequisites: A course in statistics and computer science or an introductory course to GIS. Use of GIS technology in wildlife and fisheries management and research. Emphasis placed on creation, maintenance, and analysis of spatially explicit data. Lecture two hours, laboratory four hours. \$10 laboratory fee.

FW 5054 Waterfowl Ecology and Management

Prerequisites: BIOL/FW 3114 (Ecology) Ecology and management of North American waterfowl and their habitats. Laboratory exercises will focus on identification, life histories, sex and age determination, and abundance survey methods. Lectures and discussions will cover behavioral ecology, reproductive ecology, winter ecology, harvest management, and habitat management and conservation. \$10 laboratory fee.

FW 5064 Wetland Ecology and Management

Prerequisites: BIOL/FW 3114 (Ecology) An in-depth coverage of wetlands including occurrence, morphology, hydrology, soils, ecology, and regulation. The types of wetlands and their functions will be discussed, as will local, state and federal regulations pertaining to their use, management and protection. Laboratory will focus on identification of common wetland vegetation, delineation of wetland boundaries, as well as field techniques and management activities commonly used in Arkansas wetlands. Lecture three hours, laboratory two hours. \$10 laboratory fee.

FW 5083 Principles of Fisheries Management

Prerequisites: Courses in ecology, statistics, and calculus or permission of instructor. The principles and theory of warm-water fish management with major emphasis on behavior, aquatic habitat, and population dynamics. Lecture three hours.

FW 5103 Human Dimensions of Fisheries and Wildlife Management

Prerequisites: BIOL/FW 3114 (Ecology) or permission of instructor. Exploration of the complex interactions of social, political, institutional, economic and ecological processes that contribute to natural resource use and management. The primary focus is on interactions and conflict resolution among various stakeholders, resource management agencies, and wildlife and fisheries resources. Topics covered include public attitudes and expectations; agency structure and policy; values of fishes, wildlife; and public relations. Lecture three hours.

FW 5881-4 Advanced Topics

Prerequisite: Consent of instructor. This course offers special instruction on fisheries and wildlife topics that are not otherwise covered in the curriculum. The primary focus of the course will vary from offering to offering, thus the course may be taken more than once. This course may be repeated if content is different. On demand.

FW 6001 Graduate Seminar in Fisheries and Wildlife Biology

Analysis of current and classical concepts in fisheries and wildlife biology. The primary focus of this course will vary from offering to offering, thus the course may be taken for credit more than once. Lecture one hour.

FW 6002 Research Methods I

Prerequisites: A course in statistics. Methods for literature review, experimental design, and thesis proposal development. Lecture two hours.

FW 6012 Research Methods II

Prerequisites: A course in statistics. Methods for data analysis and thesis preparation. Lecture two hours.

FW 6013 Population Dynamics

Prerequisites: Courses in ecology, statistics, and calculus, or permission of instructor. An in-depth analysis of major historical development in the theory, techniques of manipulating, and mathematical modeling of fish and wildlife populations. Lecture three hours.

FW 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge that complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

FW 6991-6 Thesis Research

Research on a topic culminating in a written thesis.

Foreign Language

FR 5283 Seminar in French

Prerequisite: At least 19 semester hours of French at the undergraduate level or permission of instructor. Course content will vary. May be repeated for credit after completion of FR 4283 or FR 5283 if content is different.

FR 6801 Cultural Immersion and Research

Prerequisite: Enrollment in A.I.L.P. French Immersion Weekend and permission of instructor. Intensive study of French cultural topics followed by individual research projects. May be repeated for credit if content varies.

FR 6881-6 Foreign Language Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

FR 6891 Foreign Language Independent Study

Prerequisite: permission of the instructor and department head. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings.

GER 5283 Seminar in German

Prerequisite: At least 19 semester hours of German at the undergraduate level or permission of instructor. Course content will vary. May be repeated for credit after completion of GER 4283 or GER 5283 if content is different.

GER 6801 Cultural Immersion and Research

Prerequisite: Enrollment in A.I.L.P. German Immersion Weekend and permission of instructor. Intensive study of German cultural topics followed by individual research projects. May be repeated for credit if content varies.

GER 6881-6 Foreign Language Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

GER 6891-4 Foreign Language Independent Study

Prerequisite: permission of the instructor and department head. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings.

JPN 6801 Cultural Immersion and Research

Prerequisite: Enrollment in A.I.L.P. Japanese Immersion Weekend and permission of instructor. Intensive study of Japanese cultural topics followed by individual research projects. May be repeated for credit if content varies.

JPN 6881, 4, 5 & 6 Foreign Language Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction.

JPN 6891-2 Foreign Language Independent Study

Prerequisite: permission of the instructor and department head. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings.

SPAN 5213 Spanish Literature

A survey of the literature of Spain with readings from representative works. May not be taken for credit after completion of SPAN 4213.

SPAN 5223 Spanish-American Literature

A survey of Spanish-American literature with readings from representative works. May not be taken for credit after completion of SPAN 4223.

SPAN 5283 Seminar in Spanish

Selected topics on language, literature, or culture in the Americas and Spain. Course may be repeated if content differs. May not be taken for credit after completion of SPAN 4283.

SPAN 5803 Film Theory

An introduction to Spanish-language film theory and major films, from the development of film and film theories to the present. May not be taken for credit after completion of SPAN 4803.

SPAN 6003 Introduction to the M.A. in Spanish

The emphasis of this course is on analytical reading and academic writing. The course provides the student with research and analytical tools used in the humanities in order to develop the ability to handle larger expository and argumentative units and to deal more effectively with the writing process.

SPAN 6013 Advanced Composition

Analysis of different prose styles and practice in writing fluent Spanish compositions. Course emphasizes formal levels of written communication on both literary and non-literary topics.

SPAN 6023 Literary Theory

Examination of the fundamental concepts of literary theory and criticism and their applications to Spanish texts, poetry, narrative, and drama.

SPAN

6033 Seminar in Spanish American Literature

An examination of major writers of contemporary Spanish-American literature. The course will examine each work within its structure. Particular attention will be paid to social, intellectual, and existential aspects. Course may be repeated if content differs.

SPAN 6043 Seminar in Colonial Spanish-American Literature

An examination of major writers of colonial Spanish-American literature. The course will examine each work within its structure. Particular attention will be paid to social, intellectual, and existential aspects. Course may be repeated if content differs.

SPAN 6063 Spanish American Literature and Culture

A study of Spanish-American literature, emphasizing works that give representative expression to the thought and cultural patterns of their times.

SPAN 6073 Short Story

An analysis of Spanish-language short stories, with particular attention given to distinguished literary figures. Works will be studied in depth and examined from a different critical and theoretical perspectives. Course may be repeated if content differs.

SPAN 6083 Seminar in Poetry

An analysis of Spanish-language poetry, with particular attention given to distinguished poets. Works will be studied in depth and examined from different critical and theoretical perspectives. Course may be repeated if content differs.

SPAN 6093 Seminar in Novel

An analysis of Spanish-language novels, with particular attention given to distinguished writers. Works will be studied in depth and examined from different critical and theoretical perspectives. Course may be repeated if content differs.

SPAN 6133 Seminar in Spanish Literature

An examination of major writers in Spanish literature. The course will examine each work within its structure. Particular attention will be paid to social, intellectual, and existential aspects. Course may be repeated if content differs.

SPAN 6163 Spanish Literature and Culture

A study of Peninsular literature, emphasizing works that give representative expression to the thought and cultural patterns of their times.

SPAN 6283 Seminar in Spanish

Selected topics on language, literature, or culture in the Americas and Spain. Course may be repeated if content differs.

SPAN 6403 Advanced Spanish Grammar

This course is designed to provide more advanced grammatical and syntactical features, increased ability with idiomatic expressions, and vocabulary enlargement.

SPAN 6503 History of the Spanish Language

An examination of different aspects involved in the development of the Spanish language. Topics to be considered may include, among others, the evolution of different linguistic systems of Spanish and the socio-cultural factors and context that influenced its development. The course will entail analysis of texts that reflect changes in language usage and attitudes toward language.

SPAN 6701 Teaching College Spanish

Introduction to second language learning/teaching theory, methodology, and practice. Supervised teaching, preparation of instructional and testing materials, and practice in evaluation. Readings and bibliographic work in second language learning/teaching theory, practice, and research. Required of all graduate assistants.

SPAN 6881-6 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

SPAN 6891-4 Independent Theory

Prerequisite: permission of the instructor and department head. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings.

SPAN 6993 Thesis Research

Prerequisite: Permission of the instructor or Department Head. Directed research on a thesis topic selected by the student in consultation with a supervising professor.

General Science

GSCI 6003 Higher Order Thinking In Science

A course designed to assist teachers expand their scientific knowledge, of life, earth, and physical systems; create successful learning environments for students by teaching to use manipulatives, calculators, laboratory equipment, and various learning strategies; and to provide access to appropriate materials and equipment. This laboratory-based course stresses the learning of science as active, integrated, constructive processes involving experimentation, investigation, communication, reasoning, and problem solving. Lecture 2 hours, laboratory 2 hours.

Geography

GEOG 5023 Economic Geography

Prerequisite: Permission of the instructor or Department Head. A study of the resources at man's disposal and his economic activities in utilizing these resources. Special attention is given to industrial and agricultural resources of leading nations. May not be taken for credit after completion of GEOG 4023 or equivalent.

GEOG 5803 Seminar in Global Studies

Prerequisite: Permission of the instructor or Department Head. A seminar on current world geographic influences that affect the nations of the world, such as demographics, complex environmental and physical changes, and political and economic relationships. May not be taken for credit after completion of GEOG 4803.

GEOG 5833 Geographic Information Systems

Prerequisite: Permission of the instructor or Department Head. An introductory course dealing with computer organized spatial and attribute data. GIS is a system of specialized computer programs with the capability to manipulate and analyze data for problem solving. May not be taken for credit after completion of GEOG 4833 or equivalent.

GEOG 6003 Political Geography

Prerequisite: Permission of the instructor or Department Head. Seminar on the influence of geography in world affairs. A survey of how the physical and cultural geographical factors influence contemporary policies and events.

GEOG 6881-3 Workshop

Prerequisite: Permission of the instructor or Department Head. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

GEOG 6891-4 Independent Study

Prerequisite: Permission of the instructor or Department Head. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Geology

GEOG 6881-4 Workshop

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

Gifted Education

GTED 5003 Understanding the Gifted in Home, School and Community

Prerequisite: Consent of instructor. A survey in gifted education providing basic knowledge and concepts of interest to parents, prospective teachers and the community at large.

GTED 6833 Current Issues and Trends in Gifted Education

Prerequisite: Consent of instructor. Critically examines timely and controversial issues in the field of gifted education to assist educators in developing more defensible programs for gifted/talented children. Systematic analysis of the trends and issues should result in an understanding of Gifted/Creative Education as it is presently viewed by scholars and practiced in the field. One should also gain new insights as to the direction in which we are moving as a "discipline" and as a school function.

GTED 6843 Curriculum Development for Instruction of the Gifted/Talented

Provides a background for the development of curriculum material designed to serve the educational needs of gifted/talented, particularly in regard to critical thinking, problem solving, and creativity.

GTED 6853 Methods and Materials in Gifted Education

This course is designed to provide instruction in methods and techniques of appropriate teaching for gifted/talented students. Also included are guidelines for materials selection and curriculum modification.

GTED 6863 Practicum in Gifted Education

Prerequisite: Consent of instructor. Clinical experiences in teaching the gifted/talented. Designed to assist teachers in providing individualized instruction necessary for developing the potential of the gifted/talented. A \$12.50 fee will be assessed to cover the cost of supplies and materials needed for a three-hour course.

GTED 6873 Developing Creative Talent

Prerequisite: Consent of instructor. Includes a review of research on creativity and provides instruction in the use of methods and techniques appropriate for the development of creative talent at elementary and secondary levels. Also included are guidelines for materials selection and curriculum modification.

GTED 6881-3 Workshop

Prerequisite: Consent of instructor. The special topics workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

GTED 6891-3 Independent Study

Prerequisite: Consent of instructor. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of an action study.

GTED 6903 Guidance and Counseling of the Gifted/Talented

Defines the distinctive emotional needs of the gifted and presents strategies that counselors, teachers, and parents can use to help the gifted meet those needs at school and at home.

GTED 6991 Action Research

Prerequisite: GTED 6993 Action Research. Directed action study. If the three-hour action study (GTED 6993) has not been completed during the semester(s) of enrollment, the student must register for GTED 6991 during subsequent semesters in which he/she is receiving faculty assistance with the action study and/or using University library facilities.

GTED 6993 Action Research

Prerequisite: EDFD 6003 Educational Research. Directed action study selected by the student in consultation with supervising faculty in the School of Education.

History

HIST 5013 American Military History

Prerequisite: Permission of the instructor or Department Head. A study of the American military from its colonial origins to the present, including the development of the military establishment and its relationship with American society. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4013 or equivalent.

HIST 5023 Vietnam War

Prerequisite: Permission of the instructor or Department Head. A study of the American involvement in Vietnam from 1945 to 1975. Emphasis will rest on the actual period of war in Vietnam. May not be taken for credit after completion of HIST 4023 or equivalent.

HIST 5033 The Frontier in American History

Prerequisite: Permission of the instructor or Department Head. Study of the American frontier as a place, as a process, and as a state of mind influential in shaping institutions and attitudes during the expansion of this nation westward from Atlantic to Pacific. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4033 or equivalent.

HIST 5053 United States Economic History

Prerequisite: Permission of the instructor or Department Head. A study of the major economic forces which have helped influence, and been influenced by, United States history. Particular emphasis will be given to the development of agriculture, business, industry, and labor in their American setting. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4053 or equivalent.

HIST 5073 United States Diplomatic History, 1776-1912

Prerequisite: Permission of the instructor or Department Head. This course is a study of America's diplomatic relationships with other nations and peoples from 1776 to 1912. Of particular emphasis will be the changes in international affairs brought about by the evolving economic and political conditions. This course follows the United States' early struggles in diplomacy through its expansion and eventual emergence as a world power. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4073 or equivalent.

HIST 5083 United States Diplomatic History, 1912 to the Present

Prerequisite: Permission of the instructor or Department Head. This course is a study of America's diplomatic relationships with other nations and peoples from 1912 to the present. Of particular emphasis will be the changes in international affairs brought about by the evolving economic and political conditions. This course follows the United States' from its emergence as a world power through two world wars, a cold war, and a war on terrorism. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4083 or equivalent.

HIST 5123 African American History

Prerequisite: Permission of the instructor or Department Head. This course examines the unique role and contribution of African Americans in the overall development of American history from the colonial era to the present. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4123 or equivalent.

HIST 5133 Latinos in the United States

Prerequisite: Permission of the instructor or Department Head. This course is an analysis of the historical and cultural heritage of Latinos who have lived or are currently living in the United States. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4133 or equivalent.

HIST 5143 Native American History

Prerequisite: Permission of the instructor or Department Head. A survey of Native American history from the Archaic period to the present. This course will present an interpretation of the historical experience of the diverse nations native to North America utilizing an ethno-historical approach. Some emphasis will be placed on the formation and operation of United States government policy regarding Native Americans in both the 19th and 20th centuries. May not be taken for credit after completion of HIST 4143 or equivalent.

HIST 5153 History of Arkansas

Prerequisite: Permission of the instructor or Department Head. A study of the history of the state from Indian times to the present, noting political, social, economic, and cultural trends. May not be taken for credit after completion of HIST 3153 or HIST 4153 or equivalent.

HIST 5183 American Legal History

This course concerns the history and development of law, legal institutions, and legal culture in the United States from its colonial origins to the present day, with emphasis on the interaction of law with the overall development of American society. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4183 or equivalent.

HIST 5203 Women in American History

Prerequisite: Permission of the instructor or Department Head. A treatment of women in Western and American social history in their lifestyles and economic and family roles. May not be taken for credit after completion of HIST 3203 or HIST 4203 or equivalent.

HIST 5403 Interpretation/Education through Museum Methods

Prerequisite: Permission of the instructor or Department Head. Museum perspectives and approaches to care and interpretation of cultural resources, including, interpretive techniques of exhibit and education outreach materials, and integrating museum interpretation/education into public school and general public programming. Class projects focus on special problems for managing interpretive materials in a museum setting. Graduate level projects or papers involve carrying out research relevant to the Museum's mission and relating to current Museum goals.

HIST 5503 History of Christianity

A study of Christianity, from its beginnings to the present day, focusing especially on ancient Mediterranean, medieval European, and modern American Christian traditions. Emphasis will be on the interaction between individual beliefs, group identity, and institutional forces, how each have been shaped by broader social, political and cultural contexts, and finally how these interactions have resulted in profound changes for the Christian religion. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. May not be taken for credit after completion of HIST 4503 or equivalent.

HIST 5513 History of Science

Prerequisite: Permission of the instructor or Department Head. A study of the origins, nature, and development of Western science, and its social, economic, and cultural context. May not be taken for credit after completion of HIST 4513 or equivalent.

HIST (POL) 5981-3 Social Science Seminar

Prerequisite: Permission of the instructor or Department Head. A directed seminar in an area of social sciences. The specific focus will depend upon research under way, community of student need, and the unique educational opportunity available. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. Students are limited to a maximum of 3 hours credit at the graduate level. Subtitle will appear on students' transcripts.

HIST 6003 Historical Methods

Prerequisite: Permission of the instructor or Department Head. General methods of, and approaches to, historical research and writing, including theories, current approaches, problems, and debates. Students will become familiar with basic tools of historical research and professional discipline. Course requires the individual production of a substantial research paper based upon disciplined inquiry and the exploration and analysis of primary and secondary sources.

HIST 6013 Research Seminar in United States History

Prerequisite: Permission of the instructor or Department Head. An investigation of selected topics in American history. Course requires the individual production of a substantial research paper based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. Content varies by semester. Course may be repeated for a maximum of 6 hours of credit. Alternate subtitles will appear on students' transcripts.

HIST 6033 Readings in United States History

Prerequisite: Permission of the instructor or Department Head. A readings course in selected topics in American history. Course acquaints students with primary and/or secondary interpretations of the historical period addressed during the semester. Course requires the completion of extensive and wide-ranging reading assignments and the production of substantial written work on the course topic. Content varies by semester. Course may be repeated for a maximum of 6 hours of credit. Alternate subtitles will appear on students' transcripts.

HIST 6053 Historiography

Prerequisite: Permission of the instructor or Department Head. Seminar in the analysis of works of important historians from ancient time to the present, with consideration of schools, theories, philosophies, and functions of history. Course requires the completion of extensive and wide-ranging reading assignments and the production of substantial written work.

HIST 6333 Research Seminar in Arkansas History

Prerequisite: Permission of the instructor or Department Head. Seminar involves researching and writing a paper on a topic related to the history of Arkansas. Course requires the individual production of a substantial research paper based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. Content varies by semester. The course may not be repeated for credit.

HIST 6343 Readings in Arkansas History

Prerequisite: Permission of the instructor or Department Head. The purpose of this course is to acquaint graduate students with the important people, events, and issues of Arkansas through a program of intensive reading and writing. Course requires the completion of extensive wide-ranging reading assignments and the production of substantial written work on the course topic. Content varies by semester. The course may not be repeated for credit.

HIST 6403 Applied Public History

Prerequisite: HIST/ANTH/RP/MUSM 5403 or permission of the department head. Directed utilization of archives and museums, historical editing and publishing, documentary editing, family and community history, material culture, and historic site interpretation, preservation, and management. Areas of emphasis varies by semester. The course may be repeated for a maximum of 6 hours of credit. Alternate subtitles will appear on students' transcripts.

HIST 6413 Research Seminar in Modern European History

Prerequisite: Permission of the instructor or Department Head. An investigation of selected topics in modern European history. Course requires the individual production of a substantial research paper based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. Content varies by semester. The course may be repeated for a maximum of 6 hours of credit. Alternate subtitles will appear on students' transcripts.

HIST 6433 Readings in Modern European History

Prerequisite: Permission of the instructor or Department Head. A readings course in selected topics in modern European history. Course requires the completion of extensive and wide-ranging reading assignments and the production of substantial written work on the course topic. Content varies by semester. The course may be repeated for a maximum of 6 hours of credit. Alternate subtitles will appear on students' transcripts.

HIST 6533 Research Seminar in World History

Prerequisite: Permission of the instructor or Department Head. An investigation of selected topics in world history. Course requires the individual production of a substantial research paper based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. Content varies by semester. The course may be repeated for a maximum of 6 hours of credit. Alternate subtitles will appear on students' transcripts.

HIST 6543 Readings in World History

Prerequisite: Permission of the instructor or Department Head. A readings course in selected topics in world history. Course acquaints students with primary and/or secondary interpretations of the historical period addressed during the semester. Course requires the completion of extensive and wide-ranging reading assignments and the production of substantial written work on the course topic. Content varies by semester. The course may be repeated for a maximum of 6 hours of credit. Alternate subtitles will appear on students' transcripts.

HIST 6811 Seminar on the Teaching of History

Prerequisite: Permission of the instructor or Department Head. An introduction to the various issues involved in teaching history at the post-secondary level. Graded S/U.

HIST 6881-3 Workshop

Prerequisite: Permission of the instructor or Department Head. Course which allows flexibility of topic, structure, and credit hours to enable faculty to design content according to program needs. Open to graduate students who wish to pursue in-depth advanced projects. Course requires the completion of extensive and wide-ranging reading assignments and the production of substantial written work on the course topic. The workshop will require the equivalency of fifteen clock hours per credit hour. Students are limited to a maximum of 3 hours of workshop credit.

HIST 6891-4 Independent Study

Prerequisite: Permission of the instructor or Department Head. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the graduate History program. Course requires the completion of extensive and wide-ranging reading assignments and the production of substantial written work on the course topic. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis. Students are limited to a maximum of 6 hours of independent study credit.

HIST 6993 Thesis Research

Prerequisite: Permission of the instructor or Department Head. Directed research on a thesis topic selected by the student in consultation with a supervising professor.

Humanities

HUM 5433 Seminar in Humanities

Prerequisite: Permission of the instructor or Department Head. A directed seminar in the Humanities. The specific content will depend on research under way, community or student need, and the unique educational opportunity available. May be repeated for credit if course content changes.

HUM 6233 A Survey of the Fine Arts

Prerequisite: Permission of the instructor or Department Head. This course is designed to present information about the fine arts to assist students to develop appreciation of, and sensitivity to, the fine arts. It is particularly designed for (1) persons who desire breadth of understanding about the fine arts, (2) teachers of gifted and talented students, and (3) students of the fine arts who desire more interdisciplinary information about the fine arts.

HUM 6513 American Musical Theatre

Prerequisite: Permission of the instructor or Department Head. A study of the origins and evolution of musical theatre in the 19th and 20th centuries in America, with particular emphasis on turning point musicals, such as *Show Boat*, *Oklahoma*, *West Side Story*, *Hair*, and *Sunday in the Park with George*; on important composer/lyricist teams, such as Rogers and Hart, Rogers and Hammerstein, Lerner and Lowe, Bernstein and Sondheim; and on contemporary trends, including rock musicals, Off-Broadway musicals, and operatic musicals.

Information Technology

INFT 5053 Information Systems Resource Management

A study of the principles and concepts involved in the management of information resources including hardware, software and personnel. Includes coverage of departmental functions within computer/information services as well as legal, ethical, and professional issues, quality management, and strategic impact of information system.

INFT 5103 Software Development

Prerequisite: 1 year of programming in a high-level language, or a two semester sequence of programming courses. Techniques for specifying, designing, developing and testing medium-scale software.

INFT 5123 Laws of Communication

This course will familiarize the student with legal knowledge necessary for a communications specialist or working journalist. The course will attempt to identify case and statute law. It will also include in-depth research in particular legal matters.

INFT 5203 Database Systems

Prerequisite: INFT 5403. An in-depth study of creating databases in a personal productivity package, including relational database design, generation of customized interfaces, and importing/exporting data to other packages. Survey of applications of personal databases in education and industry.

INFT 5303 Developing and Administering Web Sites

Prerequisite: INFT 5403. The World Wide Web, Web browser, and web servers. Developing web pages. HTML and HTML editors. Characteristics of a good web site. Installing and configuring web browsers and web servers. Security, screening, and privacy issues.

INFT 5403 Introduction to Information Technology and Systems

Introduction to the infrastructure of information technology and systems. Topics include computer hardware and software, communication and networks, databases, e-commerce technology, design and development of information systems, information security, privacy, ethics, and social impact.

INFT 5413 Computer Systems and Architecture

A study of the fundamentals of system software and computer architecture. The course includes an introduction to the basic foundation of processor operation, memory hierarchy, bus and I/O systems along with their interactions. RISC and CISC instructions sets, fundamental networking terminology and implementation strategies, and an introduction to basic digital logic design.

INFT 5503 The UNIX Operating System

An introduction to the UNIX operating system. Topics to be covered will include the history and philosophy of UNIX systems, an introduction to basic elements of UNIX, the "shell" command interface, utilities for managing files, and an introduction to the functions that administrators perform to maintain or re-establish the reliability of UNIX systems and the tools that UNIX provides to support that activity.

INFT 5700 Computer Networks Lab

Co-requisite: INFT 5703. Students will complete network lab exercises in support of INFT 5703.

INFT 5703 Computer Networks

Prerequisite: INFT 5403 and INFT 5413. Co-requisite INFT 5700. A study of the concepts involved in establishing communication between computer systems. Topics include network topologies, protocols, routing, security, and administration.

INFT 5981-3 Special Topics

A treatment of subjects not routinely covered in other courses. Subjects will vary. May be repeated for a maximum of 6 hours.

INFT 6013 Decision Support Systems

This course enables students to acquire a broad understanding of management information systems and their components and the use of data and analysis models to aid the process of making decisions.

INFT 6203 Database Development and Administration

Prerequisite: INFT 5103 and INFT 5203. A thorough introduction to accessing and maintaining a database via programming interface. Database administration features of SQL. Installation and tuning of a database.

INFT 6303 Design of Web-Based Information Systems

Prerequisite: INFT 5203 and INFT 5303. A survey of methods for providing web-based access to data across a network. Common Gateway interface. Use of generation tools for developing web-based forms. Storing form data into a database. Retrieving information from a database and formatting it for presentation through the web and through e-mail. Client-based processing of data. Audio and video mechanisms support.

INFT 6403 Information Systems Analysis and Design

A study of the various concepts, tools, principles, procedures, techniques, and stages of information systems development. Emphasis is placed on the systems approach to problem-solving, user involvement, the management of quality, project control, and teamwork. Other subjects will include feasibility study, requirements definition, documentation, system development life cycle, prototyping, and data modeling.

INFT 6700 Heterogeneous Networks Lab

Co-requisite: INFT 6703. Students will complete network lab exercises in support of INFT 6703.

INFT 6703 Heterogeneous Networks

Prerequisite: INFT 5503 and INFT 5703. Co-requisite INFT 6700. This course prepares the student to analyze, evaluate, and implement networks in a heterogeneous environment. Both intranetworking and internetworking concepts are studied, built, and tested. The successful completion of lab exercises is required for course credit.

INFT 6903 Emerging Trends in Information Technology

Prerequisite: Consent of instructor. Study of emerging trends in information technology. Analyzing and reporting on these trends.

INFT 6973 Thesis Research in Information Technology I

Prerequisite: Approval of a thesis plan by the thesis committee or the head of the department. Formal presentation of directed research on a thesis topic selected by the student in consultation with a supervising professor. Prior to the final defense of a written thesis, students will be required to present their research study in a seminar to faculty, staff, and other students. This course must be continued by taking INFT 6983 in a later semester to complete the entire six-hour thesis research.

INFT 6983 Thesis Research in Information Technology II

Prerequisite: INFT 6973. A continuation of the six-hour thesis research. Students may not enroll in this course with INFT 6991-3 in the same semester. In this course the degree candidate must submit his/her thesis to the thesis committee by the date established by the thesis committee. A final oral defense conducted by the thesis committee must be passed at least three weeks before the degree is conferred.

INFT 6991-3 Internship

Prerequisite: Approval of a project proposal by the MSIT Graduate Committee or the Instructor. Students will develop and/or maintain a sponsored computer laboratory or an information system. Duties will include determining user needs, writing and presenting a laboratory or system development/maintenance plan, and supporting the laboratory or system for a semester. This course can be repeated up to six total credit hours in different semesters. The internship will require the equivalence of four clock hours per week of direct client interaction per credit hour earned.

Journalism

JOUR 5033 Community Journalism

A course to acquaint the student with the characteristics of journalism as practiced in small towns and cities and study the relationship of the news media to the other institutions of the town or city.

JOUR 5053 Mass Communication Seminar

Prerequisite: Permission of instructor. Studies of the relationship of mass communication to social, political, technical, and economic issues. Course content will vary. May be repeated for credit as JOUR 5053 when course content changes.

JOUR 5083 New Communication Technology

A study of and practice in the use of the developing technology of mass communication, including the social, legal and economic effects.

JOUR 5113 History of American Journalism

Prerequisite: Permission of instructor. A survey of the history of American journalism and mass media and their relationships to technical, economic, political, and other aspects of American society. May not be taken for credit after completion of JOUR 4113 or equivalent.

JOUR 5123 Laws of Communication

This course will familiarize the student with legal knowledge necessary for a communication specialist or working journalist. The course will attempt to identify case and statute law. It will also include in-depth research in particular legal matters. May not be taken for credit after completion of JOUR 4123, or equivalent.

JOUR 5163 Advanced Photography and Video

An introduction to advanced photographic techniques including color film processing, digital photography, and nonlinear editing. Various historic and current theories of visual journalism provide a substantive base for the application of techniques.

JOUR 5193 Communication Research Methods

Introduction to the methodologies of behavioral science applied to communication research including design measurement, data collection, and analysis. Explores the use of surveys, content analysis, focus groups, and experiments in studies of communication processes and effects. Students will complete a research project.

JOUR 5243 Journalism Writing Seminar

This course is designed to teach the fundamentals of news writing and fact-gathering for the mass media in a concentrated format. Emphasis will be on newspaper writing style, but the fundamentals will apply to broadcasting, news media, public relations, advertising, and other fields.

JOUR 6053 Media and Society

Prerequisite: SPH5003, Human Communication Theory. Incorporates mass communication theory as well as the global nature of media operations while focusing on the relationship between mass media and society. Students will examine contemporary issues that confront media professionals together with the social responsibilities and ethical questions that attend such issues. The political, social, and governmental influences on media policies and practices will also be emphasized in addition to the effects of media on society and culture.

JOUR 6133 Multi-Media Publishing

Prerequisite: JOUR 5163, Advanced Photography and Video. Focuses on designing communication messages on the computer that combine several media and are interactive. Using the same software tools that are used in the multi-media industry, students learn to conceptualize, design, prepare, and program works for publication on CD-ROM and/or the WEB. Projects incorporate photographs, music, sound, video, and extensive user interactivity. Work in the course attempts to parallel product development in the real world multi-media industry.

JOUR (ART) 6163 Survey of 20th Century Photography

An investigation of the development of photography as a fine art or commercial art form or as a medium for social documentary. Fine art photography is emphasized with the work of significant advertising, commercial, and documentary photographers also included.

JOUR 6193 Journalistic Writing for Multi-Media

Introduction to writing for multi-media. Course explores the advantages, audiences, and various technologies before studying the formats and language appropriate for each medium. Students develop their writing skills through analysis and practice.

JOUR (ART) 6263 Survey of Photojournalism

An investigation of the development of photography as a journalistic medium and as a medium for social documentary. The work and working methods of major photojournalists from about the time of the American Civil War to the present will be examined along with the impact of photojournalism on modern society.

JOUR 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

JOUR 6996 Professional Project

Projects should be original work that is a manifestation of the student's multi-media expertise and reflect both a mastery of content with respect to a given topic as well as the technological skill to present the same in a multi-media format. All completed projects must include a written review of the literature and other materials relevant to the project. It is anticipated that the review will be substantive and comprehensive, and clearly indicate how the project builds on intellectual and journalistic traditions.

Liberal Arts

LA 6013 Introduction to the Liberal Arts

A study of the ideas, methods, and resources appropriate to the disciplines in the liberal arts.

LA 6213 Liberal Arts Colloquium

Seminar in a topic relevant to the liberal arts. Course content will vary. May be repeated for credit as LA 6213 if course content differs.

LA 6713 Liberal Arts Project

Completion of creative or research project. Grade received for successful completion of project is credit (CR).

Library Media

LBMD 6003 Selection of Instructional Materials

A study of the selection, evaluation, organization, and purchasing of instructional materials for the school library media center. The course includes a review of selection tools for identifying materials, determining suitability for specific grade levels, and establishing purchasing and teacher review procedures.

LBMD 6013 Reference Materials in the School Library Media Center

Study of the techniques of reference work, reference interviews, types of reference questions, selection of reference materials (print and non-print), and practice in their use with special emphasis on school library media centers. Networking for the purpose of sharing resources will receive emphasis in the course. Students will be required to do hands-on machine reference searches in addition to a research project.

LBMD 6023 Classification and Cataloging

Prerequisite: Nine hours of graduate study or permission of instructor. A study of the principles and competencies of cataloging and classification. Attention centered on the actual classification and cataloging of school library media center materials. Students will be required to do hands-on machine cataloging.

LBMD 6033 The Instructional Role of the Library Media Specialist

Course participants will explore national and state library media standards and develop curriculum based upon the national and state standards for library media specialists.

LBMD (ELED) 6403 Literature for Children and Adolescents

An in-depth study of printed and other types of materials available for use in the elementary grades and middle school. Emphasizes the selection and use of materials to stimulate and improve learning.

Management

MGMT 4203 Project Management

Prerequisite: Admission to the graduate program and approval of the Engineering program director. Project Management is studied from a practical perspective. In this course, students explore techniques of organizing the three main elements of project management: cost, schedule, and score, as well as how to manage the most important aspect of Project Management: PEOPLE. Students will learn to utilize software that aids in the visualization of the project management process. The emphasis of this special topic in management will be aimed toward an understanding of Project Management for future business leaders and engineers. The course will culminated with a month-long, graded, practical exercise with industry where students will be organized into team or as individual developers and sent to explore all aspects of a problem, conduct a project initiation workshop, and then present a project management plan to the leadership of that participating industry. May not be taken for credit after completion of MGMT 4203.

MGMT 5203 Project Management

Prerequisites: Graduate standing in the School of Engineering, COMS 1003 or BUAD 2003 or higher level microcomputer applications course, or instructor approval. May not be taken for credit after MGMT 4203. This course explores the techniques of organizing the main elements of project management: people, cost, schedule, and scope. The course emphasis is aimed toward a practical understanding of Project Management for future business leaders and engineers. Students will learn to utilize information technology that aids in the visualization and documentation of the project planning and management process.

Mathematics

MATH 5103 Linear Algebra II

Prerequisite: MATH 4003 or consent of the department of mathematics. A continuation of MATH 4003 with emphasis on abstract vector spaces, inner product spaces, linear transformations, kernel and range, and applications of linear algebra. MATH 5103 may not be taken for credit after completion of MATH 4103 or equivalent.

MATH 5113 History of Mathematics

Prerequisite: MATH 2943. A study of selected topics from the history and nature of mathematics from ancient to modern times. Emphasis will be placed on the historical development of mathematics through a study of biographies of prominent mathematicians and the evolution of some important mathematical concepts. The fundamental role of mathematics in the rise, maintenance, and extension of modern civilization will be considered. May not be taken for credit after completion of MATH 4113 or equivalent.

MATH 5153 Applied Statistics II

Prerequisite: MATH 3153. This course is a continuation of Math 3153 with emphasis on experimental design, analysis of variance, and multiple regression analysis. Students will be required to design and carry out an experiment, use a current statistical software package to analyze the data, and make inferences based upon the analysis. Math 5153 may not be taken for credit after completion of Math 4153 or equivalent.

MATH 5173 Advanced Biostatistics

Prerequisite: An introductory statistics course or permission of instructor. This course will include analysis of variance, one factor experiments, experimental design with two or more factors, linear and multiple regression analysis, and categorical data analysis.

MATH 5273 Complex Variables

Prerequisite: MATH 2943. An introduction to complex variables. This course will emphasize the subject matter and skills needed for applications of complex variables in science, engineering, and mathematics. Topics will include complex numbers, analytic functions, elementary functions of a complex variable, mapping by elementary functions, integrals, series, residues and poles, and conformal mapping. May not be taken for credit after the completion of MATH 4273 or equivalent.

MATH 5293 Introductory Topology

Prerequisite: MATH 4253. Metric spaces, topological spaces, mappings, limit points, continuity, connectedness, and compactness. May not be taken for credit after completion of MATH 4293 or equivalent.

MATH 6023 Higher Order Thinking in Mathematics

Prerequisite: Permission of instructor. This course will provide mathematics teachers in grades five through college with examples of lessons incorporating methods appropriate for students with different learning styles. These lessons will emphasize the use of manipulatives, hands-on materials, cooperative learning techniques, and technology. Mathematical content will help teachers build mathematical connections and concepts across grade levels using concrete experiences and bridging to abstract understanding.

MATH 6123 Modern Geometry

Prerequisite: MATH 3123. A brief review of standard topics in Euclidean Geometry followed by a study of hyperbolic and elliptic geometries, projective geometry, and geometric topology.

MATH 6143 Number Theory

Prerequisite: MATH 3133. The standard topics in the theory of numbers, including divisibility, congruences, quadratic residues, and distribution of primes, continued fractions, and number theoretic functions.

MATH 6183 Introduction to Real Analysis

Prerequisite: MATH 4253. Study of real numbers, topology of the line and plane, sequences and series, and differentiation and integration.

MATH 6213 Methods in Teaching Middle School Mathematics

Prerequisite: Permission of the instructor. The course is an exploration of inductive teaching models, techniques, strategies, and research for teaching mathematics in the middle school. Emphasis will be placed on constructivist learning.

MATH 6323 Methods in Teaching Secondary Mathematics

Prerequisite: Permission of the instructor. The course is a study of materials, methods, and strategies for teaching mathematics in the secondary school. Emphasis will be placed on activity-based learning.

MATH 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

MATH 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

MATH 6993 Thesis Research

Directed research on a thesis topic selected by the student in consultation with a supervising professor.

Mechanical Engineering

MCEG 5323 Power Plant Systems

Prerequisites: MCEG 3313, 4403. A study of the design and operation of steam-electric power plant components and systems. Fossil and renewable energy plants are emphasized. May not be taken for credit after completion of MCEG 4323.

MCEG 5413 Finite Element Analysis

Prerequisites: ELEG 2103, MCEG (ELEG) 3003 and MCEG 3013. Introduction to approximate methods using finite elements. Development of the finite element method using variational formulations. Applications include machine design, mechanical vibrations, heat transfer, fluid flow and electro-magnetics. May not be taken for credit after completion of MCEG 4413.

MCEG 5463 Heating, Ventilating, and Air-Conditioning Design

Prerequisites: MCEG 3313. A study of the principles of human thermal comfort including applied psychrometric and air-conditioning processes. Fundamentals of analysis of heating and cooling loads and design of HVAC systems. May not be taken for graduate credit after completion of MCEG 4463.

MCEG 5503 Nuclear Power Plants I

Prerequisites: MCEG 3503, MCEG 4403. A study of the various types of nuclear reactor plants including the methods used for energy conversion. Relative advantages/disadvantages of various plant types investigated. May not be taken for credit after completion of MCEG 4503.

MCEG 6503 Reactor Physics

Prerequisites: PHYS 3213, MCEG 3503, MATH 5243. A study of the fundamental physical principles in the operation and design of nuclear reactors. Includes neutron-nucleus interactions, neutron energy spectra and energy dependent cross sections, neutron transport and diffusion theory, multi-group approximations, criticality calculations, and reactor analysis and design methods.

MCEG 6513 Radiation Measurement

Prerequisites: MCEG 3503, MCEG 3512. The study of radiation techniques and equipment used by scientists and engineers. Topics of interest will include techniques and equipment for detecting ionizing radiation below about 20 MeV, Coincidence counting methods, and reactor laboratory experiments (as available). Lecture two hours, lab three hours.

MCEG 6523 Nuclear Materials

Prerequisites: MCEG 2023 and MCEG 3503. A study of the properties of materials utilized in nuclear reactors, shielding systems and other systems exposed to radiation. Emphasis will be placed on understanding and mitigating the damage of such materials by neutron and gamma radiation.

MCEG 6533 Radiation Interactions and Shielding

Prerequisites: MCEG 3503, MCEG 3523. Basic principles of radiation interactions, transport and shielding. Radiation sources, nuclear reactions, radiation transport, photon interactions, dosimetry, and shielding design will be covered.

MCEG 6881-3 Workshop

Prerequisite: permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

MCEG 6891-6 Independent Study

Prerequisite: completion of 18 hours toward program requirements, approval of advisor. Students will complete an engineering project approved by their Advisory Committee. The project must include elements of engineering design and project management with a subject relevant to the student's program of study. Successful completion of the project will include a professional report and full presentation of the project findings/results.

Middle Level Education

MLED 5013 Teaching the Young Adolescent

A study of developmentally appropriate curriculum, instruction, and pedagogy for teaching the young adolescent with an understanding of the historical perspective of middle schools and programs.

MLED 5033 Young Adolescent Growth and Development

Prospective middle level teachers will study the educational implications of the developmental period of young adolescence. An emphasis is placed on developmental characteristics of the young adolescent highlighting the role of the middle level teacher in promoting the healthy development of the young adolescent.

MLED 5043 Diversity in the Middle Level Classroom

Prospective middle level teachers will study the educational implications of the economic, cultural, racial and intellectually diverse middle level classroom.

Museum

MUSM(RP/ANTH) 5403 Interpretation/Education through Museum Methods

Prerequisites: Senior or Graduate standing, or permission of instructor. Museum perspectives and approaches to care and interpretation of cultural resources, including interpretive techniques of exhibit and education-outreach materials, and integrating museum interpretation/education into public school and general public programming. Class projects focus on special problems for managing interpretive materials in a museum setting. Graduate level projects or papers involve carrying out research relevant to the Museum's mission and relating to current Museum goals.

Music

MUS 5803 History of American Music: Jazz and Folk

An in-depth study of folk music and the relationship between these forms and American life. Research, aural activity, and analysis are used to explore a variety of musical forms, composers, and performers.

MUS 5853 Music of the World's Peoples

A survey of predominantly non-Western world music cultures with attention to sonic structures, musicians, musical instruments, and socio-cultural contexts of music making. Open to students in all majors. Listening emphasized.

MUS 5881-3 Workshop in Music

Prerequisite: Permission of instructor. Course with variable credit designed to meet specific needs of participants. Each credit hour will require the equivalency of fifteen clock hours of instruction.

MUS 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Nursing

NUR 6203 Research Design and Methods

This course focuses on quantitative and qualitative research design with an emphasis on strategies for incorporating current research findings into the provision of healthcare to improve quality of care and care delivery. Students will identify common problems in nursing and health care systems, and determine the most appropriate research methodology for finding or creating solutions. Students are expected to critically appraise published research and develop appropriate and creative methods for utilizing current research findings in a variety of health care settings.

NUR 6213 Epidemiology

This course will prepare the nurse administrator to study the health-related states of client populations and apply epidemiological, social, and environmental data to the health status of individuals, families, groups, and communities. Students will examine environmental and occupational hazards leading to disease and evaluate preventative and therapeutic measures that are available within healthcare delivery systems. Current epidemic and pandemic issues will be discussed in addition to biological, chemical, and radiological threats.

NUR 6303 Legal/Ethical Issues and Current Trends in Healthcare

This course is an overview of current trends in healthcare today and the legal/ethical issues which the nurse manager in healthcare systems may confront. Students will examine contemporary social, economic, ethical and legislative issues influencing healthcare policy. Such issues as legal liability of professionals, legal compliance, ethical standards and personnel law will also be examined.

NUR 6103 Theoretical Perspectives

This course is designed to provide the student with the skills necessary to critique, evaluate, and apply theories from nursing and related healthcare disciplines. Philosophical and theoretical underpinnings of the nursing discipline will be explored with in depth discussion of knowledge development and theory analysis. Students will study a selected phenomenon in depth and learn the strategies for concept analysis and development.

NUR 6313 The Role of the Nurse Administrator

This course will prepare the graduate to analyze theories and research relevant to the role of nurse administrator as leader and manager. Emphasis will be placed on the internal and external forces influencing the nurse administrator role. Seminars will focus on healthcare policy, organization, healthcare delivery systems, and fiscal management. The graduate will be able to assume a leadership role in the managing of human, fiscal and physical healthcare resources in a variety of healthcare settings.

NUR 6996 Research Thesis/Project

This course is directed research on a thesis topic selected by the student in consultation with a supervising professor. The student will be required to present the thesis in a seminar to faculty and other graduate students.

NUR 6503 Organizational Behavior and Human Resource Management

This course deals both with human resource issues in the healthcare organizations and with the theoretical foundations of organizational development as an applied behavioral science. Attention will be directed to the dynamics of contemporary human relations in healthcare organizations.

NUR 6523 Nursing Administration Practicum

Prerequisites: 24 hours of core courses and NURS 6503 and NURS 6513. This course is designed to promote student application of theory to practice. Students, with faculty approval, will select the healthcare setting and nurse administrator as mentor for the practicum. Students will be required to plan their studies, set specific learning objectives and provide formal written reports on their findings. The nurse administrator should work closely with his/her preceptor to assess job requirements, analyze budgets and budgetary needs, and develop a plan to provide quality, cost-effective nursing care to patients.

NUR 6603 Crisis Intervention in Disasters

This course is designed to prepare the nurse administrator to develop a crisis intervention program and to understand a wide range of crisis intervention strategies including pre and post incident crisis education, crisis intervention for individuals, significant other support services, demobilizations after large scale traumas/disaster, small group defusing and group intervention. The nurse administrator should have the knowledge necessary to assess, plan, organize, implement and evaluate a crisis intervention program.

Philosophy

PHIL 5093 American Philosophy

Prerequisite: Permission of the instructor or Department Head. An examination of the main currents of American philosophical and religious thought from the earliest times to the present.

PHIL 6013 Philosophical Systems

Prerequisite: Permission of the instructor or Department Head. A study of the major systems of philosophy in the context of various philosophical theories considered from epistemological, metaphysical, logical, and ethical points of view.

PHIL 6891-4 Independent Study

Prerequisite: Permission of the instructor or Department Head. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Physical Education

PE 6013 Principles of Physical Education

Prerequisites: PE 2523, PE 4103, and three credit hours of physical education pedagogy methodology, or approval by department head. Basic principles of physical education and their application to the physical education program. Major schools of philosophical thought, leaders, and forces affecting past and present development of physical education.

PE 6023 Curriculum Development in Physical Education

Prerequisite: three credit hours of pedagogy methodology or approval by department head. A comprehensive study of curriculum development in physical education.

PE 6033 Exercise Physiology

Prerequisites: PE 4033, PE 2653, and PE 3663 or approval of department head. A study of the physiological changes in the human organism which accompany physical exercise and the implication of the changes for physical education.

PE 6043 Psychology of Motor Learning

Prerequisites: PE 2653 and PE 3663, or approval by department head. Provides an understanding of psychological principles involved in motor performance.

PE 6053 Biomechanics

Prerequisites: PE 2653, PE 3663, algebra or general mathematics, and physical science or physics, or approval by department head. The application of physics as it relates to human movement. Specific emphasis will be made on the mechanics and common injuries involved with selected sport or work related movements.

PE 6073 Exercise and Sport Behavior

Prerequisites: PE 4513 or approval by department head. The course provides an in-depth view of the psychological aspects of human behavior in sport and exercise settings.

PE 6083 Research Design and Statistics in Physical Education

Prerequisites: PE 4523 or approval by department head. Designed to familiarize the student with research literature, techniques, and statistical procedures used in physical education today.

PE 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

PE 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

PE 6993 Thesis Research

Directed research on a thesis topic selected by the student in consultation with a supervising professor.

Physical Science

PHSC (BIOL) 5003 History and Philosophy of Science

A course in the historical development and philosophical basis of modern science. May not be taken for credit after completion of PHSC (BIOL) 4003 or equivalent.

PHSC 6023 Concepts of Mining and Minerals Technology

Topics to be covered include geology of the mineral producing regions, Arkansas minerals, aspects of mineral economics, mining techniques, operations and equipment, mineral processing and use of minerals, mining law, mining health and safety, mine land reclamation, and the needs for mineral research. \$10 laboratory fee.

PHSC (BIOL) 6813 Science, Technology, and Human Values

Prerequisite: Bachelor's degree in one of the physical sciences. (Note: Those lacking such degree should enroll in LA 6813). An interdisciplinary introduction to the role of science and technology in shaping world views and addressing societal problems. Team taught by scientists and humanists.

PHSC 6881-3 Workshop

Prerequisite: EDFD 6003 or permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

Physics

PHYS 6054 Concepts of Physics

Prerequisite: Eight hours of physics or consent of instructor. A study of mechanics, simple machines, heat, sound, wave motion, electricity, magnetism, light, and modern physics. Special emphasis will be placed on those aspects of lecture and laboratory most germane to the teaching of science in grades 7-12. The course will consist of lecture, laboratory demonstrations, and laboratory exercises that can be done using equipment available in most area high schools. \$10 laboratory fee.

PHYS 6881-4 Workshop

The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

Political Science

POLS 5103 Environmental Politics

Prerequisite: Permission of the instructor or Department Head. An examination of environmental issues from a policy perspective. Although scientific questions are involved, emphasis is on the political process of environmental issues. Topics discussed include the actors, their power, limits to their power, and their impact on the environmental policy process. May not be taken for credit after completion of POLS 4103 or equivalent.

POLS 5403 Current Issues in Global Politics

Prerequisite: Permission of the instructor or Department Head. Contemporary issues in global politics studied through participation in ICONS, an international intercollegiate computer simulation network. One country will be studied in depth as a vantage point from which to assess global affairs. May not be taken for credit after completion of POLS 4403 or equivalent.

POLS (HIST) 5981-3 Social Sciences Seminar

Prerequisite: Permission of the instructor or Department Head. A directed seminar in an area of social sciences. The specific focus will depend upon research under way, community of student need, and the unique educational opportunity available. Course requires the production of substantial written work based upon disciplined inquiry and the exploration and analysis of primary and secondary sources. Students are limited to a maximum of 3 hours credit at the graduate level. Subtitle will appear on students' transcripts.

POLS 6003 Seminar in Recent American National, State, and Local Government

Prerequisite: Permission of the instructor or Department Head. An investigation of selected governmental trends and problems in the contemporary United States with analysis of their social and economic ramifications.

POLS 6403 Seminar in Contemporary Foreign Policy and International Politics

Prerequisite: Permission of the instructor or Department Head. Selected topics on the principles of international politics and/or the contemporary foreign policies of various major powers in Europe, Asia, Africa, and the Americas.

POLS 6891-4 Independent Study

Prerequisite: Permission of the instructor or Department Head. Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Psychology

PSY 5013 History of Psychology

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. A survey of the developments in psychology from the ancient Greeks to the emergence of psychology as a modern experimental science.

PSY 5033 Psychological Tests and Measurements

Prerequisite: Graduate Standing in psychology or instructor and graduate director permission. Theory of psychological testing, statistical procedures and training in administration, scoring, and profiling of various tests of ability, achievement, interests, and personality. \$20 testing fee.

PSY 5043 Social Psychology

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. A study of the factors that influence the attitudes, behaviors, and cognition of the individual with a special emphasis on interactions among people.

PSY 5053 Psychology of Perception

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. The study of general perceptual processes. While the main senses will be covered, emphasis will be placed on visual functioning. The role of perception in organismic adaptation will be explored.

PSY 5073 Cognitive Psychology

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. A study of the basic principles of mental processes and their influences on behavior. Specifically, the course focuses on the conscious and unconscious processes involved in the acquisition, storage, transformation, and use of knowledge.

PSY 6013 Advanced Statistics

Prerequisite: PSY 2053 or equivalent and graduate standing in psychology or instructor and graduate director permission. An advanced study of the concepts and techniques in descriptive and inferential statistics. Emphasis placed on the application of statistics and psychological research.

PSY 6023 Research Design

Prerequisite: PSY 6013 or equivalent and graduate standing in psychology or instructor and graduate director permission. An advanced treatment of the design and analysis of psychological research. Emphasis on the logical foundations of experimental design.

PSY 6033 Personality Testing

Prerequisite: Psy 6013 or equivalent and graduate standing in psychology or instructor and graduate director permission. Application of selected assessment devices. Emphasis on various objective tests including theoretical assumptions, scaling techniques, profile interpretation, and critical research topics.

PSY 6043 Psychopathology

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. Surveys classical and contemporary trends and theories of psychopathology; including methods, validity, and utility of classificatory schemes, properties of various disorders, as well as related assessment and treatment procedures.

PSY 6053 Advanced Development Psychology

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. Evaluation and assessment of the logical and empirical adequacies of modern theories of psychological development in relation to the maturation process of individuals.

PSY 6063 Advanced Physiological Psychology

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. An in-depth analysis of topics in physiological psychology. Emphasis is placed upon functional neuroanatomy of mammals to provide for understanding of systems for neural control of perception, orientation, motivation, learning, and complex processes.

PSY 6073 Personality Dynamics and Theories

Prerequisite: Graduate standing in psychology or instructor and graduate director permission. An examination of selected writings and research of major personality theories.

PSY 6083 Seminar in Psychology

Prerequisites: PSY 6013, PSY 6023, 9 hours of PSY at the 5000-6000 level, and permission of the department. Concentrated analysis of a particular problem in psychology. Emphasis is placed upon the evaluation of current research and theory in the development of research ideas by the student. Topics to be determined by the Graduate Faculty Committee and the Director of the Graduate Program in Psychology.

PSY 6091-6 Advanced Field Placement

Prerequisites: Successful completion of 30 graduate hours in psychology, 6 hours of thesis, and mutual consent of the faculty advisor, department, and industry supervisor. The course is a jointly supervised field placement in an area diagnostic or treatment facility. Emphasis is on an integration of theory, methods, and graduate training, with on-the-job experience. The placement is designed for students who are considering work in facilities which provide psychological and/or social services. The purchase of Professional Liability Insurance is required.

PSY 6881-3 Workshop

Prerequisite: EDFD 6003 or permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

PSY 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

PSY 6993-6 Thesis Research

Prerequisite: Graduate standing in psychology and permission of thesis advisor. Directed research on a thesis topic selected by the student in consultation with a supervising professor.

Recreation and Park Administration

RP (MUSM/ANTH) 5403 Interpretation/Education through Museum Methods

Prerequisites: Senior or Graduate standing, or permission of instructor. Museum perspectives and approaches to care and interpretation of cultural resources, including interpretive techniques of exhibit and education-outreach materials, and integrating museum interpretation/education into public school and general public programming. Class projects focus on special problems for managing interpretive materials in a museum setting. Graduate level projects or papers involve carrying out research relevant to the Museum's mission and relating to current Museum goals.

Rehabilitation Science

RS 6163 Substance Abuse

An in-depth study of the theoretical explanations for addiction will be carried out using the seminar approach. These theories will also be examined for implications for intervention in rehabilitation and prevention settings.

RS 6891, 2, & 4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Secondary Education

SEED 5013 Teaching in the Middle School

Methods and procedures in teaching in the middle school. Includes individualization of instruction and interdisciplinary teaching for middle school students. May not be taken for credit after completion of SEED 4013.

SEED 5063 Educators in Industry

A course devoted to career awareness in relation to the modern workplace. It is conducted in cooperation with local businesses and industries. The course involves research, on-site instruction, and work experience.

SEED/ELED 5333 Teaching Reading and Study Strategies in the Content Area

This course is designed to provide pre-service and in-service teachers and administrators with a knowledge of reading factors as they relate to various disciplines. Content of the course includes estimating students' reading ability, techniques for vocabulary, questioning strategies, and developing reading-related study skills.

SEED 6881-3 Workshop

Prerequisite: Permission of instructor. The workshop will require the equivalency of fifteen clock hours of instruction per credit hour.

SEED 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

SEED 6991 Thesis Research

Directed research on a thesis topic. If the six-hour thesis (SEED 6993 and 6993 in the student's area of specialization) has not been completed during the semester(s) of enrollment, the student must register for SEED 6991 during subsequent semesters in which he/she is receiving faculty assistance with the thesis and/or using University library facilities.

SEED 6993 Thesis Research

Directed research on a thesis topic selected by the student in consultation with a supervising professor.

Sociology

SOC 6003 Sociology for Educators

Designed for those with limited background in sociology, this course surveys basic concepts, research methods, and core areas of sociology including culture, social structure, social self, deviance, stratification, and social change. Special emphasis will be on the educational institution.

SOC 6891, 2 & 4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Special Education

SPED 5003 Characteristics of Children with Exceptionalities

Chronically disabling conditions that occur frequently in children with educational handicaps are reviewed. Emphasis is on early identification and detection of at-risk of failure-to-thrive children.

SPED 5013 Assessment and Design (birth-4th grade)

A study of the theory, materials, methods and instructional techniques applicable to special needs analysis. Also offers a brief examination of experiences during the early childhood education years-birth through fourth grade. This course examines challenged literacy development encompassing writing, reading, and oral language development of young children in the home and school environment.

SPED 5023 Planning Instruction for Children with Exceptionalities

This is a study of current theories and procedures utilized in the development of programs for children with special needs. Focus is on disciplines, strategies and materials involved with special needs instruction planning with execution.

SPED 5033 Working with Families of Children with Exceptionalities

This course is a brief examination of the impact of children with special needs on the roles within the family. Study will also briefly examine impact of specialized educational programs and their role in aiding and assisting families.

SPED 5046 Supervised Practicum

This class is a supervised participation in an appropriate school, or institution dealing with early childhood exceptionalities, and providing a practical hands-on application of teaching methods and ideas.

Speech

SPH 5003 Human Communication Theory

This communication theory class integrates learning about speech communication in various contexts. It is an in-depth study of contemporary and traditional perspectives of human communication, and synthesizes major concepts in human communication theory development. May not be taken for credit after the completion of SPH 4003.

SPH 5053 Speech Communication Seminar

A course for both majors and non-majors who want to investigate the relationships between human communication and contemporary social, political, and economic issues. May not be taken for credit after the completion of SPH 4053 unless the topics differ.

SPH 5063 Organizational Communication

Theories and practices of organizational communication are examined from a critical and historical perspective. Issues related to the personal, relational, cultural, group, business, global, and ethical dimensions of everyday communication practices are analyzed. Includes lecture, discussion, research, and group projects. May not be taken for credit after the completion of SPH 4063.

SPH 5073 Directing Forensics

Prerequisites: Oral Interpretation, Argumentation, Public Speaking and/or consent of the instructor. Practical study and training to lead to the planning of activities, directing competitive events, and administration of a forensic program on the high school level. May not be taken for credit after completion of SPH 4073 or equivalent.

SPH 5123 Rhetorical Criticism

This course will provide the principles of rhetorical theories as they have developed throughout history and apply them to the critical analysis of various communication events. May not be taken for credit after the completion of SPH 4123.

SPH 5153 Persuasive Theory & Audience Analysis

Survey of classical and social science theories of persuasion. Particular emphasis is given to analysis of persuasive strategies, preparation of persuasive appeals, ethics of persuasion, and audience analysis. A consideration of social movements and persuasive campaigns is also included.

SPH 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Teaching English to Speakers of Other Languages

TESL 5023 Tesol Second Language Acquisition

This course provides an introduction to the major theories of language acquisition and their applications to the instruction of ESL students. (Required for the ESL Endorsement in Arkansas)

TESL 5703 Tesol Methods - Teaching English as a Second Language

This course is an introduction to the methodology in teaching listening, speaking, reading and writing English, as well as core content, to ESL students. (Required for the ESL Endorsement in Arkansas)

TESL 5713 Tesol Assessment

This course is an introduction to ESL assessment strategies and tools, the design and evaluation of classroom tests, and the design and use of alternative assessment strategies and tools. (Required for the ESL Endorsement in Arkansas)

TESL 5723 Tesol Teaching People of Other Cultures

This course provides an introduction to issues in language and culture, including sociolinguistic variations due to age, sex, social class, ethnicity. (Required for the ESL Endorsement in Arkansas)

TESL 6003 Linguistics

Prerequisite: TESL 5023, TESL 5703, TESL 5713, and TESL 5723. Examination of phonology, syntax, and semantics in a variety of languages, including the study of language changes, as well as regional and social variations. This course will provide students with linguistic insights into language usage, writing, reading, spelling, and vocabulary.

TESL 6013 Modern English Grammar and Usage

Prerequisite: TESL 5023, TESL 5703, TESL 5713, and TESL 5723. Investigation of the structure of the systems of American English as it applies to teaching and learning of English as a second language. Emphasis will be on practical usage. Emanation of English grammar, mechanics, and usage; rules of punctuation, spelling, syntax, and usage related to oral and written production of English.

TESL 6023 Language and Society

Prerequisite: TESL 5023, TESL 5703, TESL 5713, and TESL 5723. Examination of the interrelationship of language, culture, and non-verbal communication and the role each of these plays in shaping thoughts and attitudes. Students will also investigate the interactions among language, social institutions, cultural beliefs, and individual behavior and the language variations associated with geography, socio-economic class, age and gender.

TESL 6033 Oral and Written Communication

Prerequisite: TESL 5023, TESL 5703, TESL 5713, and TESL 5723. This course will examine theory and methodology in teaching listening, speaking, reading, writing, and grammar to diverse groups of English language learners..

TESL 6053 Tesol Assessment Strategies

Prerequisite: TESL 5023, TESL 5703, TESL 5713, and TESL 5723. Examination of theory and practice in the design and evaluation of classroom tests and other assessment tools. Examination of the role of testing; survey of types of tests; criteria of tests; analysis of the tasks that require either listening, speaking, reading, writing, and the levels of communicative competence necessary to complete such tasks successfully; and evaluation of the appropriateness of various tests for ESL students.

TESL 6063 Instructional Strategies in Content Areas

Prerequisites: TESL 5023, 5703, 5713, and 5723. Participants will learn strategies to help English language learners acquire the English language and content area objectives specified by the Arkansas core curriculum standards and the English language proficiency standards.

TESL 6066 Public School Experience

Prerequisite: Completion of the required 30 hours of graduate courses needed for the MA degree. Supervised practical experience in the public school setting under the supervision of an ESL coordinator at the site and TESOL program director. The practicum curricular modifications and instructional practices resulting in the academic progress of the learners.

TESL 6076 Intensive English Internship

Prerequisite: Completion of the required 30 hours of graduate courses needed for the MA degree. Supervised practical experience in an Intensive English Program under the supervision of the director of the program and the TESOL program director. The internship is one semester long. The practicum teacher will document appropriate curricular modifications and instructional practices resulting in the progress of the Intensive English learners.

TESL 6086 Overseas Internship

Prerequisite: Completion of the required 30 hours of graduate courses needed for the MA degree. Supervised practical experience in an overseas English program under the supervision of the director of the program and the TESOL program director. The internship is one semester long. The practicum teacher will document appropriate curricular modifications and instructional practices resulting in the progress of the English learners overseas.

TESL 6143 Reading for English Language Learners

Prerequisite: TESL 5023, TESL 5703, TESL 5713, and TESL 5723. This course will examine major differences between first and second language learners of English who are developing reading skills as well as appropriate and effective activities to promote vocabulary development and reading skills for learners whose second language is English.

TESL 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the University's graduate program.

Teaching, Learning and Leadership

MTLL 6003 School Organization and Leadership for Teacher Leaders

This course will examine how schools are organized and supported from the federal level to the local school. The concepts of leadership and its role at all levels will be a focal part of this study. Students will begin to examine their leadership style and dispositions.

MTLL 6113 Action Research and Data Analysis for School and Classroom Use

This course will focus on the analysis of data with emphasis on student achievement and whole school accountability. Data driven decision-making will be examined. Students will look at research methodologies with a focus on action research and the role of the leader in facilitating action research in the field.

MTLL 6123 Instructional Leadership for the Master Teacher

This course will focus on the “hard and soft” skills of instructional leadership. The teaching and learning process will be the focus of student work. Students will learn how to observe and coach for excellence in teaching and learning. The reflective practice model will serve as a basis for theory and skill development.

MTLL 6133 Basic Elements of Curriculum

This course will focus on national, state, and local curriculum standards. Students will gain an understanding of the alignment issues of curriculum, instruction, and assessment as they prepare a curriculum artifact based on the principles of curriculum.

MTLL 6143 Organizational Change and the Role of the Master Teacher

This course will examine theories of change looking at research and case studies of first and second order change. Students will gain strategies as leaders of change as schools work to move closer to higher performance. Students will study a current change taking place in a school.

MTLL 6152 Professional Portfolio for the Master Teacher

This course will examine the role of the student portfolio and the teaching portfolio. The main focus will be the professional portfolio for the candidate's completion of their degree program.

MTLL 6202 Professionalization of Teaching for the Master Teacher

This course will examine the philosophies and historical perspectives of education for the purpose of reflection on individual teaching and learning practices. Students will purposefully explore and define who they are as a master teacher and what core beliefs impact teaching and learning in their classroom.

MTLL 6223 Teaching and Learning for the Master Teacher

This course will explore theories and best practices that can lead to improved student performance.

MTLL 6242 Cognitive Coaching and Mentoring for the Master Teacher

Students will develop the necessary skills that will enable the master teacher to be a peer learning coach and mentor for the inductee, peer, and/or marginal teacher.

MTLL 6253 Advanced Curriculum Design Practicum for the Master Teacher

This course will focus on advanced methods of curriculum design. The role of the teacher leader in the curriculum development process will be explored and acquisition of the skills necessary to facilitate, implement, assess, and sustain the process will be learned.

MTLL 6262 Action Research Practicum for the Master Teacher

This course will focus on the implementation of the student action research design, developed in the initial research course, Action Research and Data Analysis for School and Classroom Use. Analysis of field data from this research will be aggregated with emphasis on student achievement. Effective communication of the research results to various audiences will also be explored.

MTLL 6271 Resource Acquisition for the Master Teacher

This course will provide the opportunity for students to discuss, explore, and acquire skills that will supplement means to augment classroom resources in addition to the allocated budget.

Theatre

TH 5283 Children's Theatre: Techniques and Practicum

Summer. Prerequisite: Consent of instructor. The philosophy of teaching acting to children, in theory and practice. The course is designed for drama majors, teachers, and others interested in child development. The semester equivalent of two hours of class lecture is combined with the semester equivalent of two hours of supervised laboratory experience in a children's theatre setting. May not be taken for credit after completion of SPH 4283 or equivalent.

TH 5313 Theatre History III -- 1900 to 1960

A study of European and American theatre during the first part of the twentieth century, including movements such as realism, symbolism, expressionism, epic theatre, and theatre of the absurd, and playwrights such as Ibsen, Chekhov, Strindberg, Maeterlinck, Shaw, Brecht, O'Neill, Williams, Lonesco, and Beckett. May not be taken for credit after completion of TH 4313 or equivalent.

TH 5323 Theatre History IV -- 1960 to the Present

A study of European and American theatre during the last four decades of the twentieth century, including movements such as postmodernism, political/didactic theatre, feminist theatre, neorealism, new comedy, and collective creation, and playwrights such as Mamet, Wilson, Stoppard, Shepard, Churchill, Henley, Simon, Rabe, Havel, and Fugard. May not be taken for credit after completion of TH 4323 or equivalent.

TH 5503 Scene Design

Prerequisite: TH 3513 or permission of instructor. A study of the elements of design for the stage, from conception to finished production models, focusing on line, form, mass, and color. May not be taken for credit after completion of TH 4503 or equivalent.

TH 5506 High School Play Production

This course will provide basic information in lighting, sound design, set design and construction, make-up, costume design and construction, stage management, directing, and improvisational techniques. This course is aimed at certified teachers who are returning to school for additional training and is designed to meet area needs. May not be taken for credit after completion of TH 4506 or equivalent.

TH 5983 Theatre Seminar

Prerequisite: Twelve hours in theatre or consent of instructor. A directed seminar dealing with a selected topic in theatre studies. May be repeated for credit for different topics.

TH 6891-4 Independent Study

Open to graduate students who wish to pursue individual study or investigation of some facet of knowledge which complements the purpose of the University's graduate program. Students will be required to plan their studies and prepare formal written reports of their findings. The selected topic may not constitute any duplication of study leading to the accomplishment of a thesis.

Vocational Business Education

VOBE 5023 Methods of Teaching Vocational Business

A methods course designed to prepare the beginning business educator for effective teaching in the contemporary vocational business education classroom. Teaching methodologies for the business education occupational clusters are presented and practiced.

VOBE 5053 Technology Methods for Business Education

A course in technology education focusing on methods and hands-on activities utilized in secondary Business Education programs with emphasis on hardware, software, and program development. May not be repeated for credit as VOB 4053 or equivalent.

VOBE 5063 Educators in Industry

A course devoted to career awareness in relation to the modern workplace. It is conducted in cooperation with local businesses and industries. The course involves research, on-site instruction, and work experience.

VOBE 5093 Directed Vocational Work Experience

Admission by consent of instructor and advisor's recommendation. A course for business teachers or business education students who desire or need practical, on-the-job experience in areas related to the vocational business education curriculum; designed to provide practical experience in a structured, supervised setting. May not be taken for credit after completion of VOB 4093 or equivalent.

VOBE 6881-3 Technology Workshop

A course for business teachers who desire to upgrade office technology skills. Emphasis will be on methods of teaching and developing instructional materials. Hands-on computer applications will comprise a major portion of the course. Areas covered include microcomputer applications, business data processing, word processing, computerized accounting, and records management. Specific areas will be emphasized as new technology is available.

Wellness Science

WS 6013 Wellness Concepts and Applications

The course provides the advanced student the opportunity to explore cognitive health and wellness information relevant in our global community. Emphasis will be placed on application in behavior and behavior change.

WS 6023 Wellness and Fitness Program Management

The course provides the advanced student the opportunity to explore the management of wellness and fitness programs in society. Emphasis will be placed on the development of skills which enable wellness and fitness programs to be successful.