

Graduate Course Descriptions

ART Courses (Art Courses)

ART 589V Independent Study

Variable credit: 1-3 hours credit

See listing for ART 479V. In addition, students would be required to perform significant independent research in the studio area of their choice under the guidance of a faculty mentor. This research should lead to a professional-quality portfolio using that media, or a competitive quality research paper that meets the standards of the discipline.

ART 590V Special Topics

3 credits: 3 hours lecture and/or studio may be repeated for credit. Selected topics from the areas of art emphasizing individual research and/or studio projects.

ART 5923 Seminar: Teaching Art

3 credits: 3 hours lecture

Evaluation and critique of micro classroom teaching, history of academic discipline, philosophy development, test design and evaluation, preparation of classroom materials, lesson planning, and use of current technologies.

CIS Courses

(Computer Information Systems)

CIS 589V Special Topics in Computer Information Systems

Variable credit

Graduate level detailed study of one of the specialized areas of computer information systems, emphasizing advanced study and skills application.

CJ Courses

(Criminal Justice)

CJ 5903 Delinquency and the Educator

3 credits: 3 hours lecture

This course provides an analysis of structures and processes of the juvenile and criminal justice system. Topics for review will include delinquency, violence in the school system, and crisis management

ECED Courses

(Early Childhood Education)

ECED 5023 Creative Arts

3 credits: 3 hours lecture

This course will involve students in projects that integrate art, music, movement, and literature for children in early childhood education programs. Its purpose is to demonstrate various ways in

which children learn through creative experiences.

ECED 5033 Trends, Problems, and Issues of Early Childhood Education

3 credits: 3 hours lecture

A study of current trends, problems, and issues that are prevalent today in the field of early childhood education. Educational models and frameworks for the analysis of models for early childhood education are presented and discussed.

ECED 5043 Child Development

3 credits: 3 hours lecture

An analysis of psychological theories of growth and development of young children, including Piaget, Skinner, Montessori, responsive environments, contingency management, social dramatic play, and didactic teaching.

ECED 5053 Historical and Theoretical Approaches to Early Childhood Education

3 credits: 3 hours lecture

An historical analysis of various approaches to early childhood education and how these approaches relate to recent research in child development and learning.

EDFD Courses

(Educational Foundations)

EDFD 5003 History and Philosophy of Education

3 credits: 3 hours lecture

An analysis of major historical and philosophical developments and their impact on American education.

EDFD 5023 Educational Research Methodology

3 credits: 3 hours lecture

Emphasizes qualitative and quantitative research design in education. Emphasis is placed on understanding the design of research studies and the development of an action research study. The course should be taken within the first 15 hours of enrollment.

EDFD 5043 Instructional Technology

3 credits: 3 hours lecture

Treats media and instructional design with applications of state-of-the-art technology.

EDFD 5063 Psychological Foundations of Teaching and Learning

3 credits: 3 hours lecture

In-depth integrated treatment of development and learning with emphasis on cognitive development.

EDFD 5153 Child Development and the Family

3 credits: 3 hours lecture

Prerequisite: PSY 3433 or PSY 3443

Critical examination of the research relevant to developmental factors influencing the growth

process of the individual from conception to adolescence. Particular emphasis on family functioning, and the family's influence on early child development.

EDFD 5213 Teaching the At-Risk Child

3 credits: 3 hours lecture

Explores intervention strategies, relations with parents, counseling, special instructional strategies, and peer relations.

EDFD 5273 Teaching the Culturally Different Child

3 credits: 3 hours lecture

Identification and address of needs manifested by children from diverse backgrounds, with provisions for using resource people.

EDFD 5293 Special Topics

3 credits: 3 hours lecture

A series of specially designed courses which treat the major contemporary problems confronting today's educators.

EDFD 5413 Educational Technology and Cognitive Learning

3 credits: 3 hours lecture

The purpose of this course is to acquaint the student with the latest information in the area of cognitive science, including the physiological and neurological findings in brain research as related to the human learning process.

EDFD 5423 Information Management and the Teaching Process

3 credits: 3 hours lecture

This course is intended to provide classroom teachers with the skills required to store, access, analyze, and distribute electronic information in an effective and efficient manner. Such information includes text documents, still images, digital audio and video files, e-mail correspondence, animated graphics, instructional courseware, etc.

EDFD 5433 Instructional Courseware Development

3 credits: 3 hours lecture

The purpose of this course is to provide a hands-on, experiential learning opportunity in the design, development, and testing of educational software used in P-12 settings.

EDFD 5443 Social and Legal Issues in Educational Technology

3 credits: 3 hours lecture

The purpose of this course is to study issues related to technology usage such as: copyright/licensing infringement; inequity of access to technology due to gender, economic, and/or race factors; student access Internet sites; confidentiality and privacy rights; and intellectual property and ownership.

EDFD 5543 Issues and Trends in Education

3 credits: 3 hours lecture

A study of current issues and trends that impact the field of education.

EDFD 579V Independent Study

Variable credit

Consult the Independent Study subheading in the Graduate Programs section of this catalog for prerequisites and description. Prior approval necessary for enrollment.

EDFD 5823 Independent Research in Education

3 credits: 3 hours research

Designed to allow an in-depth exploration of an educational topic. The advisory committee must approve the topic and the research methodology employed. The student will make a formal presentation related to the research and will present an approved copy of the final paper to the Dean of the School of Education.

EDFD 590V Distance Education Workshop

Variable Credit

Designed to provide learning opportunities through the use of compressed interactive video, satellite, and other sources.

EDLD Courses

(Educational Leadership)

EDLD 5033 Public School/Community Relations

3 credits: 3 hours lecture

The course provides a broad overview of the essential elements of interpersonal communication skills necessary for developing effective cooperative partnerships between the school and community as outlined by national and state standards. Students will develop competencies in the area of interpersonal skills, multicultural awareness, and conflict management as well as in the development and implementation of communication strategies for a variety of audiences.

EDLD 5083 Teacher Leaders: Preparing for National Board Certification

3 credits: 3 hours lecture

Develops skills and strategies for teachers seeking or planning to seek National Board Certification. Supportive networking and collaboration are stressed.

EDLD 5103 Public Education Law

3 credits: 3 hours lecture

This course prepares school leaders who apply knowledge of federal and state constitutional, statutory, and regulatory provisions and judicial decisions governing education.

EDLD 5213 Public School Organization and Administration

3 credits: 3 hours lecture

This course prepares school leaders who understand and improve organization, implement operational plans, manage financial resources, and apply decentralized management and procedures.

EDLD 5223 Supervision of Instruction

3 credits: 3 hours lecture

Methods of supervising instructional personnel, including teachers, aides, volunteers, student teachers, and field experience students.

EDLD 5333 Strategic and Instructional Leadership

3 credits: 3 hours lecture

This course prepares school leaders who work with faculty and other stakeholders to: 1) identify needs for professional development; 2) organize, facilitate, and evaluate curriculum and programs; and 3) develop and implement techniques to ensure that new knowledge and skills are practiced in the workplace.

EDLD 5403 Building Level Administration

3 credits: 3 hours lecture

This course is a critical study of current theories, concepts, trends/issues, and innovative practices in school administration specifically designed to focus on the school leader in improving instruction of teachers and the quality of education in building level administrator.

EDLD 5423 Fiscal Management in School Settings

3 credits: 3 hours lecture

This course prepares school leaders who demonstrate the ability to identify and analyze the major sources of fiscal and non-fiscal resources for schools and school districts.

EDLD 5483 Curriculum Development

3 credits: 3 hours lecture

Consideration of historical, philosophical and societal impact on the school curriculum; emphasis on evaluation and analysis of curriculum development models and the change process.

EDLD 5513 Technology for School Leaders

3 credits: 3 hours lecture

This course prepares school leaders who use technology, telecommunications, and information systems to enrich curriculum and instruction.

EDLD 5643 Practicum in Educational Leadership

3 credits: 3 hours internship

This practicum will require students to complete an internship of 150 contact hours of school-based experiences in diverse settings that are planned cooperatively and supervised by university and school building level administrators. The practicum begins in the Summer I and will continue in the Fall semester.

EDLD 5813 Leadership Through Mentoring

3 credits: 3 hours lecture

Develops mentoring skills through the examination of organization, planning, and continuous evaluation of a planned sequence of direct teaching.

EDUC Courses

(Education M.A.T.)

EDUC 5073 MAT Methods

3 credit hours: On-line MAT

The methods course provides students with an understanding of general teaching methods, classroom management, instructional strategies, and Arkansas state standards.

EDUC 5023 Critical Literacy Across the Curriculum

3 credits: 3 hours lecture; 1 hour laboratory

Prerequisites: Admission to MAT program

Designed to improve students' understanding of language and communication through developing skills in: 1) traditional literacy; 2) scientific literacy; 3) mathematical literacy; and 4) technological literacy. Emphasis will be placed on writing skills. Students will tutor in field-based settings and will use technology during the tutoring experiences, including desktop publishing, graphics, and database management.

EDUC 5033 Teaching Diverse Learners

3 credits: 3 hours lecture; 1 hour laboratory

Prerequisites: Admission to MAT program

Designed to provide students with a basic introduction to special education and the cultural, socioeconomic, and emotional needs of 7-12 learners. Students will observe learners in field settings and will utilize technology through Internet research and software analysis.

EDUC 5043 Assessment Techniques for Teachers

3 credits: 3 hours lecture; 1 hour laboratory

Prerequisites: Admission to MAT program

An introductory course in the assessment and research procedures commonly used in the field of education including alternative, performance-based, teacher-developed, and standardized assessments.

EDUC 5053 Public School Law for Teachers

3 Credit hours; online for M.A.T.

The course provides professional educators with a basic understanding of the law as it relates to their day-to-day activities in a P-12 setting.

EDUC 5063 Alternative Learning Environments: Working with At-Risk Students

3 credits: 3 hour lecture

This course is an introduction to theories and practices in Alternative Education. The course will provide an interdisciplinary overview of educational, socio-economic, and curricular issues relevant to alternative school educators. The primary focus will be to prepare reflective teachers who will be able to improve the teaching learning process and environment for at-risk students.

EDUC 5803 MAT Internship I

3 credits

Prerequisites: Admission to MAT program

The first semester of the year-long internship experience, this course focuses on directed

teaching strategies, classroom management, working with parents and colleagues, state and local standards, and best-practices for the content being taught. Students will be working in the schools during Internship I.

EDUC 5813 MAT Internship II

3 credits

Prerequisites: Admission to MAT program

The second semester of the year-long internship experience, this course focuses on directed teaching strategies, classroom management, working with parents and colleagues, state and local standards, and best-practices for the content being taught. Students will be working in the schools during Internship II.

ENGL Courses

(English)

ENGL 5013 Advanced Studies in American Literature I

3 credits: 3 hours lecture

Prerequisite: ENGL 3403 or ENGL 3413

An in-depth study of major writers, periods, movements, and themes in American literature from the beginning to 1850.

ENGL 5023 Advanced Studies in American Literature II

3 credits: 3 hours lecture

Prerequisite: ENGL 3403 or ENGL 3413

An in-depth study of major writers, periods, movements, and themes in American literature from 1850 to the present.

ENGL 5053 Advanced Studies in British Literature I

3 credits: 3 hours lecture

Prerequisite: ENGL 3423 or ENGL 3433

An in-depth study of major writers, periods, movements, and themes in British literature from the Middle Ages through the 18th century.

ENGL 5063 Advanced Studies in British Literature II

3 credits: 3 hours lecture

Prerequisite: ENGL 3423 or ENGL 3433

An in-depth study of major writers, periods, movements, and themes of British literature from the Romantic Period to the 1960's.

ENGL 5093 Studies in Composition

3 credits: 3 hours lecture

Prerequisite: ENGL 4753 or ENGL 4593

Theory of and research in composition, its history and its cognitive and social dimensions. The course emphasizes the effective teaching of writing.

ENGL 5123 The English Language and the Teacher

3 credits: 3 hours lecture

Prerequisite: ENGL 4753 or ENGL 4593

Current research on the English language, its history, its grammar, dialects and uses, with an emphasis on how language is learned and used in the classroom.

ENGL 5153 Special Topics in Language and Literature

3 credits: 3 hours lecture

Prerequisite: 3 hours credit in 3000-4000 level literature

Detailed study of a specific topic in language and/or literature, emphasizing readings and individual research. Topics selected may cover themes, genres, single authors, national literatures or other history or language-related subjects. May be repeated for a total of 6 (six) hours credit when different topics are covered.

ENGL 579V Independent Study in English

Variable Credit

Consult the "Independent Study and Research" policy in the Graduate Programs section of this catalog for prerequisites and description. Prior approval necessary for enrollment.

ENGL 5923 Seminar: Teaching English

3 credits: 3 hours lecture

Evaluation and critique of micro classroom teaching, history of academic discipline, philosophy development, test design and evaluation, preparation of classroom materials, lesson planning, and use of current technologies.

FRS Courses

(Forest Resources)

FRS 5013 Southern Teachers' Conservation Workshop

3 credits: 1 week of study

One week of intensive instruction and laboratory exercises on conservation issues. Course requires preparation of teaching plans.

FRS 502V Special Topics

Variable credit

Selected topics in forest resources.

FRS 5033 Advanced Forest Soils

3 credits: 3 hours lecture

Prerequisite: FOR 2264, or graduate standing and permission of instructor. Preparation for professional and research careers in forest soils. Quantitative evaluation of soil fertility and water movement, and qualitative consideration of patterns and processes of pedogenic processes across forested landscapes.

FRS 5043 Systems I

3 Credits: 2 hours lecture, 3 hours laboratory

Prerequisite: FRS 5113 and SIS 3814

This course will cover advanced GIS topics such as spatial database design, raster modeling, and 3D modeling. The first third of the course will discuss spatial database structures and the second third of the course students will work on developing cartographic models and performing raster analyses. For example, students will use GIS raster modeling techniques to delineate watersheds and determine viewsheds. For the third portion of the course, students' study how to display GIS data in three dimensions and how to customize GIS software.

FRS 5053 Advanced Geographic Information Systems (GIS) II

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: FRS 5043 and CIS 4623

This course has four focus areas: network analysis for solving transportation and routing problems; metadata creation tools and standards; advanced Global Positioning Systems (GPS); and data services, including the design of a data server and an internet-enabled GIS. Customized applications will be incorporated into existing GIS internet packages for display and presentation on the internet.

FRS 5063 Remote Sensing

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisite: SIS 3814. Remote sensing concepts including electronic and analog sensor systems, land cover classification, rectifying and registering images, and digital mapping.

FRS 5073 Spatial Statistics

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: SIS 3814 and FRS 5113, or instructor's permission.

This is an analytical, problem-based course that explores the field of spatial statistics. Students will use statistical tools to determine patterns of spatial variability across a wide variety of data sets. Topics discussed will include distance sampling, interpolation methods, such as inverse distance weighting, kriging, co-kriging, and point pattern analyses.

FRS 5083 Digital Photogrammetry

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: FRS 5113, SIS 3814, and FRS 5063.

Image mosaicing, digital orthophoto creation, aerial triangulation, single image and block triangulation, ground control, digital terrain modeling extraction, orthorectification, and mono and stereo terrain model editing.

FRS 5102 Research Methods

2 credits: 2 hours lecture

Introduction to the conceptual and technical aspects of research. Topics include the scientific method, science reasoning, literature searching, scientific writing, and ethics.

FRS 5113 Statistics in Research I

3 credits: 2 hours lecture, 2 hours laboratory

Fundamental concepts and applications of statistics with focus on natural resources. Probability and distribution theory; estimation and hypothesis tests involving one parameter; hypothesis tests involving two parameters; simple and multiple linear regression. Use of statistical software.

FRS 5123 Statistics in Research II

3 credits: 2 hours lecture, 2 hours laboratory

Prerequisite: FRS 5113 or permission of instructor.

Essential concepts and applications of statistics with focus on natural resources. Analysis of variance; multiple range tests; analysis of covariance; higher order experimental designs; categorical data; non-linear regression. Use of statistical software.

FRS 5133 Wildlife-Habitat Relationships

3 credits: 3 hours lecture

Prerequisite: One course in wildlife ecology or permission of instructor.

Advanced concepts in wildlife-habitat relationships. Combines study of natural history and ecological theory to investigate and discuss wildlife-habitat concepts.

FRS 5143 Landscape Ecology

3 credits: 3 hours lecture

Prerequisite: One course in ecology or permission of instructor

Advanced concepts associated with landscape ecology. Study of spatial variation in landscapes at a variety of scales. Includes biophysical and societal causes and consequences of landscape heterogeneity. Foundations for understanding human-natural resource relationships.

Development of a theoretical understanding of the importance of viewing humans as part of the natural resource decision making process.

FRS 5233 Natural Resource Policy

3 credits: 3 hours lecture

Foundations for understanding forest and natural resource policy. Includes historical context as well as social, biological, and political constraints and ramifications of policy.

FRS 5283 Tree Growth and Wood Properties

3 credits: 3 hours lecture

Structure and properties of wood and wood products, tree growth and wood properties, and the effects of silviculture practices on wood quality

FRS 5153 Wildlife Population Analysis and Management

3 credits: 2 hours lecture, 3 hours laboratory

Introduction to the techniques used in the analysis, interpretation, and management of wildlife populations. Measures of abundance, dispersal, fecundity and mortality, population modeling, competition and predation, and the management of rare species and their habitats are discussed in detail.

FRS 5203 Human Dimensions in Natural Resources

3 credits: 3 hours lecture

FRS 5223 Forest Ecosystem Ecology

3 credits: 3 hours lecture

Prerequisites: Graduate status and one course in ecology.

Advance study into the structure and function of forest ecosystems including current and founding theories on energy flow, nutrient cycling, temporal change in and disturbance of ecosystems, landscape and spatial relationships, biodiversity, and anthropogenic alteration of ecosystems.

FRS 5253 Advanced Forest Economics

3 credits: 3 hours lecture

Prerequisites: FOR 4673 or equivalent; MATH 1073 or equivalent; FRS 5113 and FRS 5123. Advanced economic principles applied to forest-based natural resource problems. Valuation, forecasting, inventory models, supply and production of forest outputs, regional economic analysis. Readings and problems.

FRS 5283 Tree Growth and Wood Properties

3 credits: 3 hours lecture

Structure and properties of wood and wood products, tree growth and wood properties, and the effects of silviculture practices on wood quality.

FRS 5303 Forest Modeling

3 credits: 3 hours lecture

Prerequisite: FRS 5113 or permission of instructor.

Model construction of ecological processes and their application to solve practical and conceptual issues of forestry.

FRS 5313 Digital Remote Sensing

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: FRS 5113 and FOR / SIS / WLF 3814, or permission of instructor.

Advanced digital remote sensing concepts. Includes principles of remote sensing for mapping, landcover classification, and analysis of spectral data.

FRS 5433 Forest Stand Dynamics

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisite: FOR 3434 or permission of instructor.

Study of contemporary silvicultural practices and their ecological, social, and economic underpinnings. Emphasis on case studies from forests in Arkansas.

FRS 5691 Seminar

1 credit: 1 hour lecture

Discussions and presentations relating to forest resource topics. May be repeated for credit.

FRS 5723 Advanced Natural Resource Management

3 credits: 3 hours lecture

Prerequisite: FOR 4723 or permission of instructor.

Natural resource principles considering timber and non-timber resources; forest models; principles of forest regulation; harvest scheduling; decision analysis; investment analysis; and analytical techniques and computer applications in forest management.

FRS 573V Forest Enterprise

Variable credit

Prerequisite: Graduate student status or permission of the instructor.

Forest enterprise is an endeavor, a struggle, a campaign to assist private forest landowners in managing their forest resources (water, wildlife, timber, recreation). Course modules are 1 credit each. Module 1 focuses on the role of consulting foresters in providing management assistance. Module 2 stresses assistance from government agencies and programs. Module 3 describes programs from private, industrial, and non-government organizations (NGOs). The course may be taken for 1-3 credits, but may not be repeated.

FRS 579V Research and Thesis

Variable credit

Research while enrolled for a master's degree under the direction of faculty members.

FRS 589V Independent Study in Forest Resources

Variable credit

Consult the Independent Study and Research subheading in the Graduate Programs section of this catalog for prerequisites and description

GEOG Courses

(Geography)

GEOG 5113 World Geography

3 credits: 3 hours lecture

Focus on selected regions of the world to be chosen from among Europe, Africa, West Asia, North America, and Latin America. Emphasis on physical, political, cultural, and economic characteristics of the selected regions.

GSCI Courses

(General Science)

GSCI 5013 Advanced Biology

3 credits: 2 hours lecture, 3 hours laboratory Prerequisite: 12 hours of biology

Basic concepts and principles of the study of life, including biochemistry, cell structure and function, respiration and photosynthesis, transmission genetics, molecular genetics, evolution, and ecology.

GSCI 5043 Advanced Geology

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisite: 12 hours of physical sciences

Materials of the earth's crust and the processes and agents which affect them; earth history interpreted from rocks and fossils.

GSCI 5063 Advanced Chemistry

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: 12 hours of chemistry or 8 hours of chemistry and at least 2 (two) years experience

teaching chemistry at the secondary level

Composition, occurrence, preparation, properties and uses of matter, the changes it undergoes, its energy relations, and the laws governing its behavior.

GSCI 5083 Advanced Physics

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: 12 hours of physics or 8 hours of physics and at least 2 (two) years experience teaching physics at the secondary level

Forms of energy and properties of matter--mechanics, heat, magnetism, electricity, sound, and light.

GSCI 519V Special Topics: Biology

Variable Credit

Selected topics in biology appropriate for high school teachers.

GSCI 5203 Molecular Genetics

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: 8 hours of biology and 8 hours of chemistry

DNA biology; recombinant DNA techniques and applications; laboratory methods.

GSCI 5243 Advanced Environmental Science

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: 12 hours of course work in chemistry and/or biology

Natural environments and ecosystems, and their degradation by pollution, habitat destruction and loss of biodiversity.

GSCI 5263 Advanced Field Biology

3 credits: 2 hours lecture, 3 hours laboratory

Prerequisites: 12 hours of biology

Survey of the plant and animal kingdoms emphasizing recognition and natural history of local flora and fauna.

GSCI 528V Special Topics in Advanced Science Teaching

Variable credit

Selected topics in contemporary science appropriate for high school teachers.

GSCI 529V Special Topics: Chemistry

Variable Credit

Selected topics in contemporary chemistry appropriate for high school teachers.

GSCI 5303 Higher Order Thinking in Science

3 credits: 3 hours lecture

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

GSCI 539V Special Topics: Earth Science

Variable Credit

Selected topics in earth science appropriate for high school teachers.

GSCI 549V Special Topics: Physics

Variable Credit

Selected topics in physics appropriate for high school teachers.

GSCI 559V Field Geology

Variable Credit

The methods of field investigation and interpretation of geological features. The focus of this course will vary from trip to trip. May be repeated for a maximum of three (3) hours credit.

GSCI 579V Independent Study

HIST Courses

(History)

HIST 5013 American History

3 credits: 3 hours lecture

A thematic view of American history, with a historiographical emphasis. Possible topics include reform movements, social trends, and wars.

HIST 5023 World History

3 credits: 3 hours lecture

Major themes in the intellectual, social, political, and economic developments which have shaped our world from earliest times to the present. Included will be Asian, African, American and Western civilizations.

HIST 5033 Historiography and Research

3 credits: 3 hours lecture

An introduction to research and historical writing, including a review of major historians and trends in the writing of history.

HIST 5123 Arkansas History

3 credits: 3 hours lecture

An overview of Arkansas history from the earliest times to the present, with emphasis on the State's political, social, and economic development. Designed especially for those preparing to teach Arkansas history.

HIST 5133 Africa in Global Perspective

3 credits: 3 hours lecture

Major themes in African history from earliest times to the present; emphasis on the continuity of African civilization through the centuries and the interplay of African culture with Islamic and Western influences.

HIST 5143 Colonial America

3 credits: 3 hours lecture

An intensive survey of European settlement in North America from the Columbian voyages to 1789. Emphasis on the emergence of Anglo-American cultural and political institutions culminating in the War of Independence.

HIST 5153 America in Peace and War

3 credits: 3 hours lecture

An in-depth view of America between 1919 and 1945, with emphasis on cultural conflict in the 1920's and the impact of the Depression, the New Deal, and World War II on the American people.

HIST 5163 American since 1945

3 credits: 3 hours lecture

An in-depth view of America in the past half-century, with emphasis on political, social, and economic change.

HIST 5273 Secondary Social Studies Teaching Methods

3 credits: 3 hours lecture

Prerequisite: Admission to M.A.T. program

Methods of teaching social studies at the secondary level for M.A.T students. Includes teaching applications in social science disciplines; design of lesson plans, instructional materials, and tests; performance, evaluation and critique of micro-classroom teaching.

HIST 5283 Global Economic Systems

An analysis of economic systems and ideologies employed by societies from the Ancient World to the present.

HIST 5603 Selected Readings in History

3 credits: 3 hours lecture

Advanced readings in an area of history. To be selected in consultation with the course instructor.

HIST 581V Field Study

Variable credit

Classroom and/or field studies of historically significant sites.

JOUR Courses

(Journalism)

JOUR 589V Independent Study

Variable credit: 1-3 hours credit

See listing for JOUR 479V. In addition, students would be required to perform significant research under the guidance of a faculty mentor, leading to a professional-quality performance as a writer or an editor, or a competitive-quality research paper that meets the standards of the discipline.

JOUR 590V Special Topics

3 credits: 3 hours lecture, may be repeated for credit

See listing for JOUR 4243. In addition, students would be required to be familiar with the major research in the topic area and to prepare a major research paper using primary source material.

MAED Courses (Math Education)

MAED 5013 Geometry

3 credits: 3 hours lecture

Prerequisite: MATH 3423

A study of formal and informal geometries, geometric constructions, applications, and learning theory.

MAED 5023 Linear Algebra

3 credits: 3 hours lecture

Prerequisite: Completion of the calculus sequence

A study of linear algebra with an emphasis on topics relevant to the secondary school curriculum.

MAED 5033 Probability and Statistics

3 credits: 3 hours lecture

Prerequisite: Completion of the calculus sequence

The mathematical theory of probability and its application to statistical inference.

MAED 5043 Intermediate Analysis

3 credits: 3 hours lecture

Prerequisite: Completion of the calculus sequence

Topics from calculus designed to prepare teachers of calculus.

MAED 5203 History of Mathematics

3 credits: 3 hours lecture

Prerequisite: MATH 2254

A study of selected topics in the history of mathematics with emphasis on the biographies of important mathematicians and the development of significant mathematical ideas.

MAED 5243 Modern Algebra

3 credits: 3 hours lecture

Prerequisite: Completion of the calculus sequence.

A study of abstract algebraic structures including groups, rings, and fields. Also a survey of number theory to include equivalence relations, divisibility, congruences, and prime distribution.

MAED 5263 Higher Order Thinking in Mathematics

3 credits: 3 hours lecture

This course provides mathematics teachers in grades five through college with examples of

lessons incorporating methods appropriate for students with different learning styles. These lessons emphasize the use of manipulatives, hands-on materials, cooperative learning techniques, portfolio assessment strategies, and technology.

MAED 5273 Discrete Mathematics

3 credits: 3 hours lecture

Prerequisite: Completion of the calculus sequence

A survey of discrete mathematical systems, including graph theory, combinatorics, and Boolean algebras.

MAED 5293 Topics in Mathematics

3 credits: 3 hours lecture

Prerequisite: Permission of instructor

Selected topics in contemporary mathematics appropriate for high school teachers.

MLED Courses

(Middle Level Education)

MLED 5013 Teaching the Young Adolescent

3 credits: 3 hours lecture

The students will study and examine the latest data on the developmental characteristics of the young adolescent. The class will also examine and review young adolescent research, and how it impacts the instructional strategies, facilities, and the development of programs and materials.

MLED 5023 History and Philosophy of and the Future of Middle Level Education

3 credits: 3 hours lecture

This course provides the historical development of the middle school/junior high school, its current status, and the direction of middle level education in the future.

MLED 5033 Middle Level Seminar

3 credits: 3 hours lecture

This course will address current issues and research in middle level education. Best practices will be reviewed and compared from field experiences with recommendations for change and improvement.

MLED 5043 Middle Level Curriculum

3 credits: 3 hours lecture

This course will address middle level curriculum based on research and current practices. Students will examine curriculum theories and middle level research will be reviewed regarding design options for integrated curriculum. A required student project will be in the area of middle level education and/or a content teaching field.

MODL Courses

(Modern Language)

MODL 5923 Seminar: Teaching Foreign Language

3 credits: 3 hours lecture

Evaluation and critique of micro classroom teaching, history of academic discipline, philosophy development, test design and evaluation, preparation of classroom materials, lesson planning, and use of current technologies.

PD Courses

(Professional Development)

PD 550V Professional Development

Variable Credit

A professional development course that cannot be applied toward a master's degree graduate program of study at UAM.

PE Courses

(Physical Education)

PE 5003 Applied Evaluation in Physical Education

3 credits: 3 hours lecture

Advanced methods of assessment for the components of physical and motor fitness. Latest evaluation procedures in physical education, including review of current literature.

PE 5033 Research Methods Application in Physical Education

3 credits: 3 hours lecture

Study of significant research, research methods, and the application of modern research principles to physical education and related areas.

PE 5043 Organization and Administration of Athletics

3 credits: 3 hours online

To prepare teachers and coaches to organize and administer programs in athletics at the middle school and secondary levels in the public schools.

PE 5103 Advanced Exercise Physiology

3 credits: 3 hours lecture

Exercise physiology and its application to fitness and training with emphasis on recent research, energy metabolism, cardiovascular respiratory function, ergometry, body composition, work capacity, ergogenic aids, aging, health risk factors, and environmental stress.

PE 5133 Problems and Trends in Physical Education

3 credits: 3 hours lecture

The analysis of current literature and research in the field of physical education with emphasis on the isolation of current problems and possible solutions to special problems.

PE 5213 School and Community Activity Planning

3 credits: 3 hours lecture

Organization and administration of recreational programs and activities. Finance, promotion, joint use of areas and facilities, group and individual activities, yearly programs, and future

trends.

PE 5233 Adapted Individually Prescribed Program

Practicum

3 credits: 3 hours lecture

Diagnostic and prescriptive evaluation in adapted physical education with hands-on testing exposure in areas of low motor ability and fitness. The Adapted Physical Education Individualized Program and its relation to the Special Education Individualized Program (IEP) will be stressed.

PE 5243 Kinesiology

3 credits: 3 hours laboratory

Human movement and related anatomical and mechanical principles. Biomechanical analysis of joint movement, stability, and range of movement, neuromuscular physiology, and electromyography.

PE 5253 Psychology of Sports in Physical Education

3 credits: 3 hours lecture

A study of selected material from literature in sociology, social psychology, and physical education dealing with the effects and interaction of these areas. Topics dealing with competition, cooperation, the audience, leadership, group interaction and maturation will be considered along with analysis of the cultural significance of sports in contemporary society.

PE 5313 Applied Nutrition in Wellness and Sports

3 credits: 3 hours laboratory

The practical application of modern principles to develop nutritional plans for students, sports participants, and later life fitness. Modern computerized nutritional programs utilized and hands-on experience with modern instrumentation and case studies provided for basal metabolism, lean weight, fat weight, caloric expenditure, and the use of proper exercise with various nutritional plans.

PSCI Courses

(Political Science)

PSCI 5013 American Political System

3 credits: 3 hours lecture

Major approaches to the study of American government. Emphasis on approaches to the study of the Presidency, Congress, the Judiciary, political parties, and interest groups.

PSCI 5103 The Middle East in Global Perspective

3 credits: 3 hours lecture

Major elements of Middle Eastern politics. Emphasis on interaction of cultural, social, political, and economic factors which determine political behavior in the Middle East.

PSCI 5123 Global Studies

3 credits: 3 hours lecture

Nature and analysis of contemporary global issues. Emphasis on frameworks for analyzing global problems and in-depth acquaintance with selected world issues.

PSCI 5133 Selected Readings in Political Science

3 credits: 3 hours lecture

Advanced readings in an area of political science. To be selected in consultation with the course instructor.

PSY Courses

(Psychology)

PSY 5803 Youth at Risk: Child and Adolescent Psychopathology

3 credits: 3 hours lecture

An advance preparation and professional development course for educators in alternative learning environments. Course topics include theoretical perspectives of psychopathology, behavior modification, anger management, developmental and learning disorders as well as psychosocial factors related to disadvantaged students.

READ Courses

(Reading)

READ 5033 Survey of Reading Programs and Practices

3 credits: 3 hours lecture

Examination of latest instructional strategies in reading instruction. Best practices in reading, writing, speaking, listening, and technology will be examined as they relate to improvement in literacy instruction.

READ 5063 Literacy Across the Curriculum: An Interdisciplinary Approach

3 credits: 3 hours lecture

The learning of science, mathematics, and reading as active, integrated, constructive processes involving experimentation, investigation, communication, and problem solving.

READ 5123 Practicum in Reading Instruction

3 credits: 3 hours laboratory

Practical application of reading and literacy strategies. Students will conduct action-based research that centers on the improvement of reading.

READ 5203 Developmental and Corrective Reading

3 credits: 3 hours lecture

Application of learning theory and research findings to diagnosis and remediation of reading difficulties.

SPAN Courses

(Spanish)

SPAN 589V Independent Study
Variable credit. 1-3 hours credit.
See listing for SPAN 479V.

SPAN 590V Special Topics
3 credits: 3 hours lecture, may be repeated for credit.
Exploration of issues involving philosophy and the humanities. Topics might be a continuing theme, a recent controversy, or a social or scholarly movement. May be repeated for a total of nine hours credit with approval of the dean.

SPCH Courses (Speech)

SPCH 589V Independent Study
Variable credit: 1-3 hours credit
See listing for SPCH 479V. In addition, students would be required to perform significant research under the guidance of a faculty mentor, leading to a professional-quality performance or a competitive-quality research paper that meets the standards of the discipline.

SPCH 590V Special Topics
3 credits: 3 hours lecture, may be repeated for credit
See listing for SPCH 4623. In addition, students would be required to write a research paper for significance in the topic area and conduct a minimum of one (1) session of the seminar.

SPCH 5923 Seminar: Teaching Speech
3 credits: 3 hours lecture
Evaluation and critique of micro classroom teaching, history of academic discipline, philosophy development, test design and evaluation, preparation of classroom materials, lesson planning, and the use of current technologies.

SPED Courses (Special Education)

SPED 5033 Contemporary Issues in Special Education
3 credits: 3 hours lecture
The study of current trends, problems, and issues concerning students with exceptionalities are presented and discussed. Also included is a study of the legislation that shapes the field.

SPED 5043
Application of Assessment Data for Exceptional Learners
3 credits: 3 hours laboratory
Study of current tests used to assess exceptional children.

SPED 5053 Language Development of Exceptional Learners
3 credits: 3 hours lecture
The study of classification, etiology, abnormalities in growth and development, relationship of

speech to handicapping conditions, diagnosis of speech of handicapped children and therapeutic measures used in the development of speech and language.

SPED 5073 Problems and Issues in Individualized Educational Planning

3 credits: 3 hours lecture

Methods in informal diagnosis and prescriptive programming that provide the teacher with skills to determine the child's learning style and to successfully plan instructional sequences appropriate to the child's changing skill needs.

SPED 5083 Characteristics of Exceptionality of Young Children

3 hours credit: 3 hours lab

This course is to provide teachers with information related to the characteristics of young children to help in planning and developing programs of study that are developmentally appropriate and fully aligned with best practices.

SPED 5123 Behavior Management

3 credits: 3 hours lecture

Provides competencies required to manage learning and classroom behaviors of exceptional children. Students will be exposed to accepted theoretical and functional principles of behavior management used and observed in the classroom.

SPED 5263 Methods and Materials for Grades 4-12

3 credits: 3 hours lecture

A study of instructional methods, materials, and activities for teaching students with mildly handicapping conditions.

SPED 5313 Methods and Materials for the P-8 Level

3 credits: 3 hours lecture

Instructional methods, materials and activities for teaching children with mildly handicapping conditions.

SWK Courses

(Social Work)

SOCIAL WORK 5803 Social Work and the Educator

3 credits: 3 hours lecture

The purpose of this course is to introduce alternative learning environment educators to social work and social services. Topics of discussion will include the relationship between poverty and diversity in schools; the impact of family dynamics on school performance; child abuse and neglect; crises intervention; and how to work with multiple social service agencies.