

Graduate Catalog, 2003-2005

Course Descriptions

Accounting

ACCT 405 Accounting for Executives

Functions of the modern executive including the duties, expectations, and responsibilities. Topics from both financial and managerial accounting. Course materials are case oriented. (3)

ACCT 406 Issues in Asset Valuation

Accounting theory associated with asset valuation; focus on the balance sheet. Topics include accounts receivable, depreciation, bonds, investments, and owners equity. Prereq: Acct 201/101, 211/102, or equivalent. (3)

ACCT 407 Issues in Income Determination

Accounting theory associated with income determination; focus on income statement and cash flow statement. Topics include pensions, leases, revenue recognition, and earnings per share. Prereq: Acct 201/101, 211/102, or equivalent. (3)

ACCT 414 Advanced Accounting

Accounting theory for partnerships and fiduciaries, advanced corporate concepts, investments, business combinations, branches, consolidated financial statements, corporate reorganizations, installment sales, and consignments. Prereq: Acct 406, 407. (3)

ACCT 433 Professional Practice of Auditing

Advanced and intensive study of auditing theory including statements on auditing standards and other pronouncements of professional organizations. Audit sampling, computer use in audit process, and contemporary professional issues. Emphasis on application of theory to specific problems using the case study method. (3)

ACCT 442 Advanced Cost and Managerial Accounting

Variety of higher-level quantitative and other topics in cost accounting. Transfer pricing, measurement of managerial performance, direct costing, decision models, quantitative approaches to cost accounting, and statistical analysis of costs and variances. (3)

ACCT 447 International Accounting

International standards for accounting, financial statement presentation, and auditing; accounting for importers, exporters, and multinational corporations. Foreign exchange rates and markets, controlled economy accounting, social responsibility reporting, political bribery, political risk, inflation accounting, and international taxation. Prereq: Acct 406. (3)

ACCT 450 Accounting Information Systems

Theory and operation of accounting information systems. Internal control, information flow, computerized transaction processing, systems analysis and design, responsibility centers, and database implementation. Prereq: Acct 406. (3)

ACCT 454 Governmental and Nonprofit Accounting

Accounting and financial reporting principles of governmental and nonprofit organizations, fund accounting principles, budgetary accounting, and financial reporting practices. Prereq: Acct 406. (3)

ACCT 456 Federal Taxation

Current taxation issues of practical and professional interest; topics of pending or proposed legislation. Selection depends on current development in taxation and areas of faculty interest and specialization. May be repeated for credit with prior approval and different topics. (3)

ACCT 457 Advanced Federal Income Taxation and Research

Taxation of corporations, partnerships, and fiduciaries. Tax accounting, tax-free corporate reorganizations, exchanges and liquidations, capital gains and losses, consolidated returns, personal holding companies, accumulated earnings tax, and S corporations. Tax research methods through numerous library research assignments. (3)

ACCT 491 Accounting Theory and Practice

Contemporary issues in accounting; emphasis on the historical, economic, and social influences. Accounting objectives, asset valuation, liability recognition, income determination, statutory accounting, international accounting, and current controversial topics. Prereq: Acct 406, 407. (3)

ACCT 492 Internship Program

To be arranged with MSA program chair or school director. (1-3)

ACCT 493 Seminar in Accounting

Current accounting and auditing topics and contemporary subjects of professional dialogue and controversy. Selection depends on recent developments and controversies in fields and areas of faculty interest and specialization. May be repeated for credit with prior approval and different topics. (3)

African-American Studies

AFS 406 The African-American Woman

Relationship of the African-American woman to institutions of society from slavery to present. Social policy issues related to legislation, employment, health care, child care, education, housing, and correction systems. (3)

Applied Music

Applied music courses are listed on the last page of the section on the Chicago College of Performing Arts.

Art

ART 407 Film History

History of the medium with attention to technological, aesthetic, and cultural developments and influence. Secondary focus varies by semester but may include spectacle, independent film, sound, or auteur theory. (3)

Biology

BIOL 404 Histology and Ultrastructure

The organization of biological tissues as exemplified by their microscopic anatomy. Emphasis on the functional activities of biological units. Laboratory focuses on the study of prepared slides of normal vertebrate tissue. Two lecture and two laboratory sessions per week. Prereq: Biol 301. (5)

BIOL 438 Organ System Physiology

Selected topics, such as water balance, neurophysiology, endocrinology, in general at the organ/tissue level of complexity. (3)

BIOL 440 Topics in Modern Biology

Content varies. May be repeated up to six semester hours. Prereq: varies. (3)

BIOL 451 Genetics

Classical and molecular genetics. Transmission genetics, chromosome genetics, interaction of genes with sex and environment, mapping, DNA structure and replication, transcription, translation, chromosome structure and genome organization, extrachromosomal inheritance, mutagenesis, gene expression. Genetics of plants, insects, vertebrates, fungi, bacteria, and viruses. Prereq: Biol 201, 301 or consent of instructor. (5)

BIOL 453 Molecular Biology

Structure of nucleic acids and chromosomes, DNA replication and repair, general and site specific recombination, control of gene expression at the transcriptional and translational levels, oncogenes and retroviruses. Laboratory techniques include PCR, DNA fingerprinting and DNA sequencing. Prereq: Biol 301 or consent of instructor. (5)

BIOL 454 Experimental Methods in Biochemistry and Biotechnology

Biochemical techniques including enzyme and lipid assays, isolation, and analysis of macromolecules. Prereq: Biol 301 or 355. (2-3)

BIOL 455 Biochemistry

Electron transport chain, protein structure, enzyme kinetics, biosynthesis, and intermediary metabolism

of amino acids, and carbohydrates and lipids. Lecture only. Included in the biotechnology certificate program. Prereq: Chem 202 and 212; Biol 301 recommended. (3)

BIOL 456 Developmental Biology

Basic principles and processes of embryology and development; selected invertebrates, vertebrates, and plants. Prereq: Biol 301 or consent of instructor. (3)

BIOL 458 Cell Biology

Molecular interactions that underlie the structure and functions of the cell. Topics include protein structure and function, membrane transport, post-translational modifications of proteins and protein secretion, cell cycle regulation, cell signaling and mechanisms of development and differentiation. Laboratory techniques include SDS-PAGE, cell fractionation, bacterial protein expression and purification, and immunohistochemistry. Prereq: Biol 301 or consent of instructor. (5)

BIOL 460 Microbiology

Structure and function of prokaryotic cells, including metabolic and genetic diversity; emphasis on differences and similarities with eukaryotes. Roles microbes play in human body, soil, and water ecosystems. Special emphasis on human diseases and microbial processes for the maintenance of biosphere. Applications to medicine, biotechnology, food processing, agriculture, pollution control. Laboratory includes proficient and safe handling of microorganisms, identification of unknown bacteria, and biochemical and microscopic methods. Included in the biotechnology certificate program. Prereq: Biol 301 or consent of instructor. (5)

BIOL 461 Information Technology for the Sciences

Methods of finding biological and biotechnological information. Online and hard copy methods will be discussed; emphasis on the use of various computer databases and the Internet. Genbank and protein sequence databases will be accessed. DNA and protein sequences will be analyzed using various computer-based homology programs. Prereq: Biol 301 or consent of instructor. (3)

BIOL 467 Immunology

Humoral and cellular immune responses, generation of immune diversity, autoimmune and immunodeficiency diseases. Immunologic assays relevant to clinical settings. Laboratory techniques include antibody-antigen

interaction, ELISA, and the purification of lymphocyte populations. Included in the biotechnology certificate program. Prereq: Biol 301 or consent of instructor. (5)

BIOL 471 Biology of Aging

The biological relationships between the normal activities of life and aging. Changes in structure and function at various levels of biological organization (subcellular population) with age. Lectures, expert guest speakers, student seminars, term paper. Prereq: Biol 111. (3)

BIOL 480 Applications of Biotechnology

Research, medical, environmental and industrial uses of biotechnology. Lectures by the biotechnology faculty as well as industrial researchers. Current and future trends in the field. (3)

BIOL 491 Medical Internship

Off-campus experience at area medical facility. Rotation through at least five medical specialties at a hospital or an approved medical or biomedical research or clinical facility. At least 12 contact hours. Prereq: Biol 301 or equivalent and approval of the school. (3)

BIOL 492 Research

Individual laboratory research project in biotechnology or biology of approximately one semester duration. Project must be designed with a biology faculty advisor and approved by the biotechnology graduate faculty. Prereq: candidacy for the MS in biotechnology and chemical science. (3)

Business Administration

BADM 401 Graduate Business Orientation

An online orientation course designed to provide the student with a review of the material covered in undergraduate business programs and to assure that the student is prepared for the advanced graduate courses. Graded pass/fail. (1)

BADM 431 Executive Colloquium I

One-credit lecture series consisting of contemporary issues and current events given by business executives

and consultants. Each lecture will be followed by a question and answer period. Pass/fail only. May also be taken in conjunction with Badm 432 and 433. (1)

BADM 432 Executive Colloquium II

One-credit lecture series consisting of contemporary issues and current events given by business executives and consultants. Each lecture will be followed by a question and answer period. Pass/fail only. May also be taken in conjunction with Badm 431 and 433. (1)

BADM 433 Executive Colloquium III

One-credit lecture series consisting of contemporary issues and current events given by business executives and consultants. Each lecture will be followed by a question and answer period. Pass/fail only. May also be taken in conjunction with Badm 431 and 432. (1)

Chemistry

CHEM 413 Advanced Organic Chemistry Laboratory

Spectrometric methods for determining the structures of organic compounds. Mass spectrometry, proton and carbon FT-NMR, infrared, ultraviolet, and visible spectroscopy. Laboratory includes synthesis of organic compounds and applied spectroscopic methods. Prereq: Chem 202 and 212. (4)

CHEM 418 Synthetic Organic Chemistry

Advanced methods in the synthesis of organic compounds, especially those of biological or pharmaceutical interest. Topics include stereo- and regiospecific reagents for organic transformations, including enzyme mediated synthesis, polypeptide and polynucleotide synthesis, and natural product synthesis. Prereq: Chem 202 and 212. (3)

CHEM 419 Organometallic Chemistry

Structure, bonding, and reactions of compounds formed between the metallic elements (primarily d block) and carbon (organic groups). Classes of compounds to be discussed include metal alkyls, aryls, hydrides, carbonyl, alkenes, and arenes. The application of organometallic compound in organic synthesis and homogeneous catalysis. Prereq: Chem 202 and 212. (3)

CHEM 421 Physical Chemistry I

Theoretical foundations of chemistry: thermodynam-

ics of pure substances and mixtures, electrochemistry, kinetic theory of gases, and chemical kinetics. Prereq: Chem 202 and 212, Math 232 and Phys 232. (3)

CHEM 422 Physical Chemistry II

Theoretical foundations of chemistry: spectroscopy and quantum theory of atoms and molecules. Prereq: Chem 202 and 212, Math 232, and Phys 232. (3)

CHEM 425 Physical Chemistry Laboratory

Experimental work in physical chemistry, including laboratories on the properties of gases, liquids, and solutions; and involving thermodynamics, kinetics, and spectroscopy. Laboratory required. Prereq: Chem 202, 212, and 237, and Chem 321 or Chem 322 or concurrent. (4)

CHEM 437 Instrumental Analysis

Basic theories and experimental techniques in electrochemistry, spectrophotometry, and chromatography. Prereq: Chem 202, 212, and 237. (4)

CHEM 441 Inorganic Chemistry

Survey of theoretical and synthetic inorganic chemistry. Atomic theory, bonding theory, crystal structure, chemical periodicity, coordination compounds, acid-base systems, and molecular symmetry. Prereq: Chem 202 and 212. (3)

CHEM 454 Experimental Methods in Biochemistry and Biotechnology

Biochemical techniques including enzyme and lipid assays, isolation, and analysis of macromolecules. Prereq: Biol 301 or Chem 455. (2-3)

CHEM 455 Biochemistry

Electron transport chain, protein structure, enzyme kinetics, biosynthesis and intermediary metabolism of amino acids, and carbohydrates and lipids. Included in the biotechnology certificate program. Prereq: Chem 202 and 212. (3)

CHEM 473 Environmental Chemistry

Connection of basic chemical knowledge to environmental issues in the areas of energy, atmosphere, hydrosphere and biosphere. Chemical substances and their impact on the environment; toxicological effects,

conversion, and spread. Prereq: Chem 202, 212, and 237. (3)

CHEM 481 Polymer Chemistry

Synthesis, physical and analytical characterization, and use of polymers, including fibers, plastics, coatings, and resins. Morphology and rheology of polymers. Prereq: Chem 202 and 212. (3)

CHEM 492 Research

Individual laboratory research project in chemistry or analytical technology of approximately one semester duration. Project must be designed with a chemistry faculty advisor and approved by the chemistry graduate faculty. Prereq: candidacy for the MS in biotechnology and chemical science. (3)

Computer Science and Telecommunications

CST 405 Advanced Data Structures

Analysis of complex data structures and algorithms used in systems programming, database design, and other applications. Topics include B-trees, Fibonacci heaps, graphs and graph manipulation methods. Techniques for correctness and worst-case complexity analysis of algorithms. A computer use course. Prereq: Cst 280 or 284 and programming proficiency in C++. (3)

CST 407 Telecommunications Management

Manager's perspective on telecommunications. Emphasis on financial analysis and administrative issues such as staffing, organizing, planning, controlling, and negotiating contracts and coordinating system conversion procedures. Prereq: Cst 246 or 290. (3)

CST 408 Advanced Algorithms

Some of the most common algorithms used throughout computer science, such as algorithms encountered in coding theory, network security, linear programming, data compression, and mathematical computation. Emphasis on analysis and implementation of algorithms. A computer use course. Prereq: Cst 280 or 284 and Math 300. (3)

CST 410 Formal Languages and Automata

Finite automata and regular languages; push-down automata and context-free languages. Turing machines, linear-bounded automata, and context sensitive languages. See also Math 410. Prereq: Cst 280. (3)

CST 415 Parallel Systems and High Performance Computing

Parallel architectures, present and future; performance criteria and measures; benchmarks; limitations and scalability; the future of high performance computing. Prereq: Cst 280. (3)

CST 417 Operating Systems Concepts

An in-depth study of the components and functions of computer operating systems. Topics include system services, file system management, memory management, resource allocation, scheduling, processing levels, multitasking, deadlocks, and interprocess protection mechanisms. A computer use course. Prereq: Cst 280 or 284. (3)

CST 420 Analysis of Algorithms

Average and worst-case behavior of wide variety of useful algorithms; mathematical methods needed for the analysis. Algorithms from areas of compiler design, data structures, systems programming, database design, and others. Prereq: Cst 280 or 284. (3)

CST 421 Network Design and Analysis II

Discrete-time queues and discrete-time Markov chains on the simplest possible level; development of the model for protocols. Equilibrium analysis for analysis of protocol models, especially multiple-access protocols. Applications of the technique including the handling of buffered users, evaluation of finite channel delays, and timing delays. The problem of unsolvable traffic equations. Prereq: Cst 352. (3)

CST 427 Combinatorics

Permutations and combinations; identities involving binomial coefficients; inclusion-exclusion principle; recurrence relations; generating functions; introduction to the theory of graphs. See also Math 345. Prereq: Math 245 and 232. (3)

CST 428 Linear Programming and Optimization

Models of optimization with linear constraints and objectives; simplex method and related algorithms; duality and sensitivity; transportation and assignment problems; games and network flow applications. See also Math 428. Prereq: Math 300 and one programming course. (3)

CST 430 Numerical Analysis

Solution of equations by iteration; interpolation; numerical differentiation and integration; numerical solutions to linear systems. A computer use course. See also Math 330. Prereq: Math 232, 300, and one programming course. (3)

CST 431 Telecommunication Systems Analysis

Analyst's perspective of telecommunications services and equipment. Evaluation and selection methods, RFPs, Net Present Value and risk analysis, operating policies, implementation issues, traffic analysis, trunking, and routing. Quantitative methods of analysis are emphasized. Prereq: Cst 246 or 290. (3)

CST 432 Advances in Network Technology

Fundamentals of contemporary network architecture and use of various transmission technologies. Technologies for LAN and WAN such as optical networking and Wavelength Division Multiplexing. Fast transmission and switching technologies such as Asynchronous Transfer Mode (ATM), photonic networking, WDM and SONET. Prereq: Cst 352 and 280 or 284. (3)

CST 433 Database Design

Introduction to database design goals, techniques, and concepts such as logical and physical data independence, data sharing, redundancy, integrity, and concurrency. Hierarchical, network, and relational models of data and their implementations. Emphasis on data modeling, relational algebra, normalization, data structures for relations, and query functions. Prereq: Cst 280 or Math 245. (3)

CST 433 Database Design

An introduction to databases with emphasis on how to create, maintain, and use a database with SQL. Relational databases, querying, data manipulation, integrity constraints, indexing, and other topics. Prereq: Math 245. (3)

CST 440 Computer Architecture

Internal organization of the components of computer systems with special focus on the processor. Systems programming, interrupts, and other applications. Prereq: Cst 280. (3)

CST 441 Compilers and Interpreters

Study of the internal organization of systems programs that translate higher level source code into machine code. Syntactical, semantic, and lexical analysis. Grammars, storage allocation, and code generation techniques. Prereq: Cst 280. (3)

CST 443 Network Operations and Management

Essential network management issues such as formulating functional requirements, organization of the network management function, representation of network management information, standards for the network management layer including Simple Network Management Protocol (SNMP) and its place in TCP/IP protocol suite. OSI-based network management standards, their place in OSI model, and principles of OSI management functions. Prereq: Cst 346 or 352. (3)

CST 444 OOP with C++

An advanced course in programming emphasizing the development of reusable software components via the object oriented programming (OOP) capabilities of C++. Topics include programmer defined abstract data types; classes; function overloading and default arguments; operator overloading; composition and multiple inheritance; polymorphism; virtual functions; and run-time type identification. Extensive programming required. Prereq: Cst 280. (3)

CST 445 Network Simulation

Fundamentals of network simulation applying typical simulation techniques. Students design simulation models of LAN, MAN, and WAN to predict the performance of the simulated object. Simulating ATM, frame-relay, and SNA in class makes this course complementary to Cst 432. Prereq: Cst 452. (3)

CST 446 Coding Theory

Various techniques for developing and implementing codes that can be used to reliably transmit data in the presence of noise, including Hamming codes, error detection and correction mechanisms, linear codes,

q-ary codes, vector spaces over finite fields, syndrome decoding, perfect codes, Latin squares, and cyclic codes. Prereq: Cst 352. (3)

CST 448 Advanced Data Communications

Foundations of communications theory including signaling system 7, T1 and ISDN, various modulation methods, methods of sizing and optimizing of data circuits, error detection and correction methods, data compression methods. Prereq: Cst 246. (3)

CST 450 Boolean Algebra and Switching Theory

Logic gates and Boolean algebras. Minimization of switching functions, and Karnaugh maps. Introduction to logic circuits, flip-flops, counters and registers. Digital arithmetic. See also Math 350. Prereq: Cst 250, Math 245 and 231. (3)

CST 452 Network Design and Analysis I

Communication system hardware, organization, and structure. Detailed examination of various communication protocols and interfaces used in computer networks, including routing and route discovery algorithms. A computer use course. Prereq: Cst 280 or 284. (3)

CST 454 Local Area Networks

A practical examination of network topologies, protocols, and operating systems such as Windows NT, UNIX, and NetWare. The OSI 7 layer network model is covered, along with packet switching, text compression, TCP/IP and file transfer protocols. Hands-on network lab experience included. Prereq: Cst 246. (3)

CST 455 Graduate Seminar

Course content varies. Study of the current state of research in a designated area of the computer science. A faculty member introduces initial study of the fundamentals, followed by the study of recent publications chosen by a faculty member. Prereq: consent of instructor. (3)

CST 456 Wireless Communication Systems

Foundations of radio-cellular communications including a variety of wireless systems and techniques for the analysis of their operational performance. Concepts of wireless system architectures, spectrum management, channel capacity, and systems interoperability. Prereq:

Cst 346 or 352. (3)

CST 457 Systems Programming

This course is intended to introduce the student to programming in the Unix environment. The course will focus on programming methods and issues that are specific to working in Unix. Topics covered will be the Unix process, the POSIX thread model, synchronous and asynchronous event handling, IPC, RPC's and sockets, and distributed Unix applications. Prereq: CST 218. (3)

CST 465 WEB Programming I

This course will introduce students to designing and programming applications for use on networks and the World Wide Web. Students learn about client side and server side processing and the use of a web browser as a client and user interface to their programs. Students will be introduced to internet protocols such as https, ftp and ssl and issues such as security, reliability, and management are discussed. Prereq: CST 250 or CST 254. (3)

CST 466 Network Security

Tools and techniques used to secure network transmissions including data encryption, public and private keys, network firewalls, and user authentication techniques. Prereq: Cst 346 or 352. (3)

CST 467 Web-Based Data Applications

Interactive web-based applications that use one or several databases. Theoretical and project oriented. Knowledge and use of specific productivity tools and applications such as the most popular web server. Apache, PHP, and MySQL, HTML and other scripting languages. Prereq: Cst 280 and 333 or equivalent database design course. (3)

CST 471 Distributed Databases

Use of multiple, physically and logically separate databases. Data modeling, horizontal and vertical fragmentation, distributed query processing, concurrency, deadlocks, and recovery techniques. Heterogeneous and object-oriented databases. Prereq: Cst 333. (3)

CST 472 Programming Languages

Global properties of algorithmic languages including scope of declarations, storage allocation, binding time

of constituents, subroutines, and tasks. List processing, string manipulation, data description, and simulation languages. Prereq: Cst 280. (3)

CST 476 Web Programming II

Advanced topics in web programming; focus on design and implementation of programs that exploit the World Wide Web extending beyond content delivery to complete web applications. Capabilities and limitations of PHP, ASP, and CGI. Methods for producing distributed web applications using technologies such as CORBA and RMI. Prereq: Cst 280 or 284 and 365 or consent of instructor. (3)

CST 477 Advanced Operating Systems

Advanced concepts in operating system design, implementation, and theory. Focus on distributed operating systems, algorithms of concurrent programming, and issues in distributed processing. Prereq: Cst 317. (3)

CST 478 Pattern Recognition

Statistical and semantical methods of pattern recognition and analysis. Image processing, control, decision making, and problem solving by computer. Prereq: Cst 280 and Math 217. (3)

CST 479 Computability and Complexity

Algorithms and their computational complexity. Problems for which effective algorithms exist and problems for which they cannot possibly exist. Complexity of algorithms beyond nonlinear. Why deterministic polynomial is not the same as guessing. What constitutes completeness of a problem for certain class; what is inside P; why polynomial problems are all different. Circuits and their relationship to complexity. Algorithmic problems in AI, graph algorithmic problems, and what is beyond NP. Prereq: CST 280 or 284. (3)

CST 480 Special Topics in Computer Science

Course content varies. May be repeated for credit with different topics. Prereq: varies with topic offered. (3)

CST 481 Artificial Intelligence

Concepts and methods of machine learning. Linguistic and relational representation of objects. Various types of learning, including adaptive, procedural, and inductive techniques. Introduction to a functional decision language such as LISP or Prolog. Prereq: Cst 280. (3)

CST 482 Computer Graphics

Representation, manipulation, and display of two- and three- dimensional objects. Applications to specific problems, including computer games. Prereq: Cst 280 or 284 and Math 300 or concurrent. (3)

CST 483 Concurrent Algorithms

Design, coding, and analysis of sequential algorithms; parallel algorithms; focus on the foundations of algorithm design and comparative performance evaluation. (3)

CST 484 Special Topics in Telecommunications

Course content varies. May be repeated for credit with different topics. Prereq: varies with topic offered. (3)

CST 485 CST Thesis/Project Research

Planning and implementation of research component of student's MS thesis or project. Prereq: approval of CST thesis sponsor. (3)

CST 486 Information Retrieval

Modern treatment of the automated classification and retrieval of text-based documents. Library collections and web-based systems. Topics include search engines, spiders, webcrawlers and personal filters. Algorithms for key word classification, thesaurus class construction, and document clustering. Multimedia and nontext searches. Prereq: Cst 280 or 284. (3)

CST 490 CST Thesis

Preparation of the MS thesis. Prereq: approval of CST thesis sponsor. (3)

CST 495 Independent Study

Study conducted under the guidance of appropriate faculty member. Proposal must state purpose of study, problem, methods, and means of evaluation. Prereq: consent of advisor and school director. (3)

CST 499 CST Project

Preparation of the MS project. Prereq: approval of CST project sponsor. (3)

Counseling and Human Services

(See: Education: Counseling and Human Services)

Early Childhood Education

(See: Education: Early Childhood)

Economics

ECON 402 History of Economic Thought

Examination of the development of economic thinking from the 16th century through the present day. The ideas of such great economists as Smith, Ricardo, Marx, and Keynes. Prereq: Econ 421 or consent of the instructor. (3)

ECON 403 Economics for Decision Makers

Economic concepts and analysis applied to understanding domestic and global commerce, government policies towards business, and business policies towards other businesses. How to use economic analysis to read and interpret economic reports. Focus on microeconomics, macroeconomics, and international trade. An MBA course, not intended for economics majors. (3)

ECON 405 Modern Political Economy

Exploration of topics from Marxist, Post-Keynesian, and institutionalist approaches to political economy; focus on their philosophical foundations and political implications. May include theories of historical materialism, alienation, value and distribution, crises and depression, democracy and the state, economic and labor history, and the world capitalist system. Prereq: Econ 423 or consent of instructor. (3)

ECON 406 Industrial Organization

Evolution of institutional organization of industry in American economy. Trade associations, cartels, price leadership, and governmental regulatory agencies. Prereq: Econ 423 or consent of instructor. (3)

ECON 408 Women and the Economy

Students in economics, business, public administra-

tion, and women's studies analyze the economic situation of women in the US. Focus on the interaction among the family, the labor market, and the government in determining women's economic fortunes. Prereq: consent of instructor. (3)

ECON 409 Economics of Urban Inequality

Economic and sociological theories of urban inequality. Urban economic and population trends; urban labor markets and poverty; urban housing markets and poverty; the links between cities and suburbs. (3)

ECON 410 Contemporary American Political Economy and Policy

The broad outlines of the neoclassical, Keynesian, institutionalist, and Marxian perspectives in economics; how these theoretical perspectives have been used to analyze American political economy and policy in the 1980s and 1990s. Prereq: Econ 421, 423, 436, or consent of instructor. (3)

ECON 417 Economics of Work and Labor

Study of labor from neoclassical, institutionalist, and Marxian perspectives. Topics include quantity and quality of labor supply, demand for labor, discrimination, unemployment, and income inequality. Prereq: Econ 423 or consent of instructor. (3)

ECON 418 Contemporary Problems in Collective Bargaining

Current status of labor-management relations concerning union organizing and collective bargaining. Topics include challenges to union organizing and growth; effects of unions on wages, productivity, profits, and inflation; and significance of labor market flexibility. Prereq: Econ 423 or consent of instructor. (3)

ECON 420 Government and Business

How government regulation affects the economy. Case studies of regulation in railroad, airline, oil, and other industries. Prereq: Econ 423 or consent of instructor. (3)

ECON 421 Macroeconomic Theory

A first graduate course in macroeconomics. Analysis of the determination of output, employment, price level, and economic growth. Special attention to the nature of the business cycle and possibilities for countercyclical

government monetary and fiscal policy. (3)

ECON 423 Microeconomic Theory

A first graduate course in microeconomics. Neoclassical microeconomics with a critical perspective. Analysis of supply, demand, production, and costs; price determination under conditions of perfect and imperfect competition; theory of income distribution. (3)

ECON 430 United States Economic History

Rise of corporate America from 1870 to 1940. Prereq: Econ 423 or consent of instructor. (3)

ECON 433 Comparative Economic Systems

Case studies of selected countries; may include liberal capitalism, state socialism, corporatist capitalism, social democracy, democratic socialism, transitional economies, and developing economies. The relationship between political economic theory and actual economic systems and policies. Prereq: Econ 421, 423, or consent of instructor. (3)

ECON 436 Statistical Analysis

Topics include data analysis, probability, decision theory, process control, regression, statistical inference, linear programming, and others. Focus on the limitations, assumptions, applicability, and interpretation of quantitative techniques. Emphasis on using and interpreting computer software for quantitative analysis. Prereq: consent of instructor. (3)

ECON 438 Money and the Economy

Role of money and financial institutions in operation of modern economies investigated with aid of modern macroeconomic theory. Prereq: Econ 421. (3)

ECON 440 Advanced Macroeconomic Theory

Basic macroeconomic theories refined, extended, and critiqued. Prereq: Econ 363, 421, or consent of instructor. (3)

ECON 446 Introduction to Econometrics

Construction of econometric models, statistical testing of economic hypotheses, and estimation of parametric values in economic relationships using regression analysis. Computer applications. Prereq: Econ 363, 436,

or consent of instructor. (3)

ECON 452 Urban Economic Development

Interdisciplinary approach to theories of urban/local economic development including economics, planning, political science, finance, sociology, and marketing. Application of theories to real world economic issues including local area, business, community, human resource development, high technology, and technology transfer. (3)

ECON 463 Mathematics for Economists

Mathematical tools and techniques in modern Keynesian, Neoclassical, Marxian, and Neocardian economic theories. The methodology of mathematical economics, sets, functions, matrix algebra, comparative statistics, and differential calculus. A secure understanding of college algebra is presumed on the part of the student as prerequisite for taking this course. (3)

ECON 465 Advanced Microeconomic Theory

Neoclassical and non-neoclassical analysis of the microfoundations of aggregate economic activity with applications to distribution and fairness, growth and innovation, regulation, industrial policy, theories of the firm, of consumer behavior, and class conflict. Prereq: Econ 363, 423, or consent of instructor. (3)

ECON 470 Economics of the Public Sector

Theory and practice of government involvement in resource allocation and distribution. Cost-benefit analysis. Public policy issues such as health care, crime, and Social Security. (3)

ECON 472 Public Finance

Public expenditure theory, supply and demand of public goods, and criteria for optimal allocation of resources. Philosophy, practice, and incidence of taxation. Prereq: Econ 423 or consent of instructor. (3)

ECON 474 The Economics of Development and Underdevelopment

Major models in development from theoretical and practical perspectives. Mainstream capital-centered and dualistic theories, growth with equity, basic needs, dependency, and Marxian approaches. Prereq: Econ 421, 423, or consent of instructor. (3)

ECON 476 International Trade, Multinational

Corporations, and the Question of Imperialism

Theory of international trade, international movements of capital and labor, and national commercial policies; economic analysis of multinational corporations and question of imperialism. Prereq: Econ 421, 423, or consent of instructor. (3)

ECON 477 International Finance and Balance of Payments

Theory and description of foreign exchange rates and foreign exchange markets; interactions between national income and balance of payments; evaluation and reform of international monetary institutions. Prereq: Econ 421, Econ 423, or consent of instructor. (3)

ECON 490 Thesis

Prereq: consent of instructor. (3)

ECON 495 Independent Study

Prereq: consent of instructor. (3)

Education

Written permission of the assigned advisor is required for admission to any course in education.

EDUC 405 American Education

Development of contemporary American school; teaching profession, its requirements and expectations; relation of schools to values and culture of American society; fundamental issues in American education; philosophical and historical development of ideas, events, and laws in relation to organization, purpose, and programs of today's school. (3)

EDUC 407 Topics and Issues in Human Development

Theory and research in human development; educational implications from perspective of learner and practitioner. Various stages of life span; interrelatedness of biological and environmental variables as they influence development; special role of the teacher. (3)

EDUC 411 Adolescent Development

Physical, cognitive, social, and emotional development during adolescence. Application of developmental principles to middle school and high school students. (3)

EDUC 413 Foundation of the Middle School

Historical, social, and philosophical foundations of middle level education. The evolution of the middle school concept, the creation of learning communities attentive to the needs of young adolescents, health and personal support for students, curriculum development and instructional strategies for young adolescents, parent and community involvement and the use of technology to support learning. (3)

EDUC 437 Developing Multicultural Perspectives for Educators

History, characteristics, and objectives of multicultural education; overview of and experiences with the practical application of a multicultural curriculum in the culture context of schools. Focus on teachers, administrators, and citizens as decision makers in a pluralistic democratic society. (3)

EDUC 449 Teaching for Equity and Social Justice: NonWestern Perspectives in the Classroom

History, policies, and instructional practices in public education for children of nonWestern heritage. Local resources for multicultural education. (3)

EDUC 452 Topical Workshop

Topics may include multicultural education and seminars in reading that feature attendance at annual meetings of the International Reading Association. Prereq: consent of advisor. (1-6)

EDUC 458 Linguistics for ESL Teachers

Theory and research on learning English as a second language (ESL). Foundation for understanding linguistics and learning theory specific to ESL learning and bilingualism. Requires 30 clock hours of field experience. Prereq: Ecdh 334. (3)

EDUC 468 Foundations of Bilingual and ESL Education

Historical, philosophical, theoretical, sociocultural, and legislative foundations of bilingual and ESL education in the US. Comparison of different methods and models of bilingual and ESL education and examination of current issues. Requires 10 clock hours of clinical experience. (3)

EDUC 470 Cross-Cultural Studies for Teaching Limited

English Proficient Students

Impact of culture on individuals, groups, school, work, communities, and society. Ecological perspective in conceptualizing and understanding culture and context; focus on individuals with limited English proficiency in the US. (3)

EDUC 473 Assessment of Bilingual Students

Issues, challenges, and techniques in the assessment of bilingual students. Full range of bilingual assessment from standardized tests to authentic assessment methodology. Emphasis on authentic assessment techniques in the classroom including portfolios, projects, student self-assessment, curriculum-based assessment, observation, and teacher-made assessment tools such as rubrics and checklists. Requires 15 clock hours of field experience. (3)

EDUC 474 Methods and Materials for Teaching Bilingual Students

Theories, techniques, and principles of teaching limited English proficient (LEP) students in bilingual programs. Methods and materials across subject areas and grade levels; emphasis on facilitating the development of listening, speaking, reading and writing skills across the curriculum for LEP students. Constructivist approach to learning and methods for adapting quality lessons to meet the specific needs of LEP students. Requires 50 clock hours of field experience. (3)

EDUC 475 Methods and Materials for Teaching ESL

Theories, techniques, and principles of teaching English as a second language (ESL). Methods and materials across grade levels; issues related to needs assessment, unit and lesson planning, selection and evaluation of classroom materials; development of materials for second language instruction. Various developmental processes involved in the learning of primary and secondary languages; instructional techniques at all grade levels. Requires 25 clock hours of field experience. (3)

EDUC 477 Education in a Changing Urban Neighborhood

Workshop designed to help educators recognize, understand, and teach students of many cultural backgrounds; develop appreciation of process of neighborhood change; establish means for helping newcomer in urban environment; and explore phe-

nomenon of emerging neighborhood, ethnic, class, or racial identity and its educational implications. (3)

EDUC 480 Inquiry in the Classroom

Knowledge and practical experience in teacher research. Students extend reflective practice to conducting and writing research about their own teaching for the purpose of improving classroom practice. Prereq: student teaching or concurrent. (3)

EDUC 485 Technology in the Classroom

Use of computers in classroom instruction and classroom management. Emphasis on classroom use of general applications, educational software, and the Internet; focus on using technology for problem solving. Prereq: familiarity with basic computer applications. (3)

EDUC 490 Thesis

Student defines, designs, and implements an original research project under faculty direction. Prereq: admission to candidacy for MA in education. (3)

EDUC 495 Independent Study

Independent study under guidance of College of Education faculty member. Proposal must state purpose of study, problem, methods of approach, and evaluation. Prereq: approval of detailed proposal by advisor and dean. (1-6)

Education: Counseling and Human Services

CHS 400 Orientation to Graduate Study in Counseling

A zero-credit information session that informs students about academic and clinical requirements of specializations within the counseling and human services program area. Topics include academic and clinical requirements, academic integrity and classroom behavior, and exit evaluations. Pass/fail. (0)

CHS 401 Professional Orientation, Ethics, and Writing

Standards and ethics in professional counseling. History of the profession and current professional roles; professional organizations and credentialing standards; models of consultation; expectations for writing skills, technological competency, and computer literacy. (3)

CHS 406 Statistical and Research Methods in Counseling

Research methods, statistical analysis, needs assessment, and program evaluation. Methods of evaluating counseling process and program effectiveness; review of descriptive statistics; study of inferential statistics; legal and ethical considerations; and fundamentals of writing the research report. Prereq: Chs 416. (3)

CHS 411 Social and Cultural Foundations

Sociological studies on cultural context of relationships, issues, and trends in a multicultural and diverse society; factors such as culture, ethnicity, nationality, age, gender, sexual orientation, mental and physical characteristics, education, family values, religious and spiritual values, socioeconomic status, and unique characteristics of individuals, couple, families, ethnic groups, and communities. Studies also include interpersonal communication among staff, schools, and community. (3)

CHS 413 Foundations of Counseling Theory

Philosophical foundations of counseling with concentrated study of counseling theories; historical and contemporary theories; diversity issues relevant to counseling theories and student's personal philosophical and theoretical beliefs. (3)

CHS 414 Seminar in School Counseling

The elementary and secondary school counselor's role. History, trends, professional identity, and cultural, legal, and ethical influences. ACA and ASCA ethical standards. Coordinating program components; program development; individual and group guidance; peer facilitation; and consultation. (3)

CHS 416 Human Appraisal

Individual and group approaches to assessment and evaluation. Topics include historical perspectives on assessment; standardized norm-referenced, criterion-referenced, and nonstandardized assessment; psychometric concepts including reliability and validity; strategies for selecting, administering, and interpreting assessment and evaluation instruments; case conceptualization; assessment and diagnosis of mental and emotional status; cultural, ethical, and legal considerations. (3)

CHS 417 Career and Life Style Planning

Topics include career theories and decision-making models; assessment instruments and technology-based applications; processes, strategies, and resources available to the career counselor; program planning, organization, and administration; and interrelationships among work, family, and other life roles, including diversity and gender. Clinical observations and case studies consistent with student's career direction. Clinical experience required for school counseling options. (3)

CHS 419 Diagnosis and Treatment Planning

Training in diagnosis and treatment methods for mental and emotional disorders. Skills in completing assessment interviews, establishing short- and long-range goals, and writing treatment plans. Prereq: Chs 413, 416, 421. (3)

CHS 420 Marriage and Family Counseling

Preparation for counselors, educators, and other human service personnel to provide assistance to couples and families seeking marriage and family counseling. Methods and techniques of marriage and family counseling in didactic and experiential formats. Various theoretical perspectives. (3)

CHS 421 Theories and Dynamics of Group Counseling

Theories of group counseling and principles of group dynamics. Historical developments, diversity issues, and contemporary research findings. Participation in an ongoing group required. Group guidance concepts as a significant component of the educational and prevention aspects of a counseling program. (3)

CHS 422 Topics in Substance Abuse

Theoretical concepts and practical techniques unique to the field of substance abuse counseling. Emphasis on the major areas of substance abuse and treatment as it relates to psychoactive drugs. Non-psychoactive drugs frequently misused; legal, recreational or social drugs frequently misused. (3)

CHS 426 Pre-practicum: Theories and Interventions of Counseling

Study, demonstration, and role playing of techniques relevant to counseling theories presented in Chs 413. Emphasis on development of counselor's abilities to

evaluate self and counselee in the counseling relationship. Models of consultation are discussed. Students are placed in and oriented to field practicum site. Prereq: Chs 413 or concurrent. (3)

CHS 427 Practicum: Clinical Practice in Public and Private Agencies

A minimum of 150 hours of individually supervised clinical practice in a public or private agency. Classroom seminar required. Degree candidates must display ability to integrate theory and practice equivalent to that of a competent beginning counselor and show capacity for continued learning and growth on job. See Practicum/Internship Handbook. Prereq: Chs 413, 416, 421, 423, 426, and admission to candidacy in counseling and human services. (3)

CHS 428 Practicum: Clinical Practice in Schools

A minimum of 150 hours of supervised practice in school counseling at elementary and secondary levels. Classroom seminar required. Degree candidates must display ability to integrate theory and practice equivalent to that of competent beginning counselor and show capacity for continued learning and growth on job. See Practicum/Internship Handbook. Prereq: Chs 413, 414, 416, 421, 426, and admission to candidacy in counseling and human services. (3)

CHS 430 Community Counseling

The professional work demands and work environments of community counseling centers. Foundations of community counseling, including historical influences and current role definitions. Principles of intervention, consultation, and research. Knowledge and skill requirements, including models and methods of program development. (3)

CHS 431 Mental Health Counseling

Combined didactic and seminar with focus on concepts, issues, and treatment protocols for mental health settings. Historical overview of the mental health movement; emphasis on social policies and their impact on the delivery of service to the mentally disabled. Psychopharmacology and best practice for mood, personality, and psychotic disorders. Focus on the mental health counselor's role in comprehensive community mental health. (3)

CHS 457 Topics and Issues in Human Development

The nature and needs of individuals at all devel-

opmental levels, including theories of individual and family development; theories of learning and personality development; human behavior including an understanding of developmental crises, disability, exceptional behavior, addictive behavior, psychopathology, and situational and environmental factors affecting behavior; and strategies for facilitating optimum development over the life span. Cultural, legal, and ethical considerations. (3)

CHS 460 Cognitive Counseling: Theories and Applications

Cognitive approaches to counseling including historical foundations, philosophical underpinnings, theories, assessment methods, techniques, and interventions. Application of cognitive models in counseling settings and nontraditional settings such as school/classrooms, organizations, and communities. Integrative potential of cognitive theories. Prereq: Chs 413. (3)

CHS 462 Health and Holistic Counseling

The counseling process and the practice of assessment, intervention, and health promotion. Topics include the bio-psycho-social model, the counselor's role, stress, pain management, wellness, strategies of coping, the change process, treatment adherence, issues of community prevention, and strategies for assessing and treating specific disorders. Prereq: Chs 413. (3)

CHS 463 Counseling and Psychotherapy Integration

Theories of counseling and psychotherapy; models of theory integration; conceptual and historical issues; common factors, technical eclecticism, and theoretical integration. Prereq: Chs 413. (3)

CHS 464 Child and Adolescent Counseling

The literature of child and adolescent counseling, including disorders and delays that affect social, emotional, cognitive, and physical development. How childhood difficulties are defined, diagnosed, and treated. The influence of multiple and interacting events that shape adaptive and maladaptive childhood development. Intervention strategies relevant to childhood disorders and developmental needs. Prereq: Chs 413. (3)

CHS 481 Seminar I: Community Counseling

Concurrent enrollment in Chs 497 required. Topics may include clinical assessment, case conceptualization, case management, brief therapies, family counseling, psychopharmacology, legal and ethical issues. (1)

CHS 482 Seminar II: Community Counseling

Concurrent enrollment in Chs 499 required. Topics may include counselor development, strategies of consultation, and models of supervision. Prereq: Chs 481. (1)

CHS 490 Thesis

Individual research and thesis writing. Student defines, designs, and implements an original research project. (3)

CHS 495 Independent Study

Individual study under guidance of College of Education faculty member. Proposal must state purpose of study, problem, methods of approach, and evaluation. Prereq: Approval by advisor and dean. (1-6)

CHS 496 Internship I: School Counseling

Supervised experience in implementing all aspects of school counseling academic foundations. Three hundred hours of counseling and counseling-related activities in a school and related classroom experience are required. Issues in clinical assessment, case management, ethics, school law, and consultation models for parents and teachers. Students are required to submit a portfolio of work samples by mid-semester. See Practicum/Internship Handbook. Prereq: Chs 428 and 50 hours of documented clinical experience with school-age children in age range other than practicum and internship clientele, including exceptional children. (3)

CHS 497 Internship I: Community Counseling

Supervised experience in implementing all aspects of community counseling academic foundations. Three hundred hours of counseling and counseling related activities in a community agency and RU seminars. Issues in clinical assessment, case management, family counseling, ethics, brief therapies, and psychopharmacology. See Practicum/Internship Handbook. Prereq: Chs 428. (3)

CHS 498 Internship II: School Counseling

Continued supervised experience initiated in Internship I. Three hundred hours of counseling and counseling related activities in a school and RU seminars. Case study approach, multicultural counseling, supervision, prevention, consultation, and special populations. See Practicum/Internship Handbook. Prereq: Chs 428, 496 or concurrent. (3)

CHS 499 Internship II: Community Counseling

Continued supervised experience initiated in Internship I. Three hundred hours of counseling and counseling related activities in a community agency and related classroom experiences. Issues in multicultural counseling, supervision, prevention, consultation, and personality disorders. Students are required to submit a portfolio of work samples by mid-semester. See Practicum/Internship Handbook. Prereq: Chs 497. (3)

CHS 513 Clinical Biofeedback

Theoretical, research, and technical overview of clinical biofeedback. Emphasis on integrating physiology, learning theory, and biofeedback. Biofeedback as treatment modality in stress management, psychosomatic illness, psychotherapy, and muscle re-education. Both a foundation course and review for professional health care providers preparing to take certification boards in clinical biofeedback. (3)

CHS 597 Internship I: Mental Health Counseling

Supervised clinical internship requiring 450 hours; all aspects of mental health counseling. Attendance in University seminars required; clinical assessment, case management, family counseling, ethics, brief therapies, and psychopharmacology. Prereq: Chs 427. (3)

CHS 599 Internship II: Mental Health Counseling

Continuation of Chs 597. Supervised clinical internship requiring 450 hours; all aspects of mental health counseling. Attendance in University seminars required; best practice for working with mood, personality, and psychotic disorders; consultation models; and supervision practice. Prereq: Chs 597. (3)

Education: Early Childhood

Written permission of the assigned advisor is required for admission to any course in early childhood education.

ECHD 405 Assessment in Early Childhood

Introduction to early childhood measurement and assessment techniques. Fundamentals of psychometric theory; structure and uses of standardized tests; skills for using alternative classroom assessment techniques for child study. Each student conducts a specific

child study project using standardized and authentic measures. (3)

ECHD 409 Child, Family, and Community

Family and community involvement in educational programs; impact upon child and family development. (3)

ECHD 411 History and Philosophy of Early Childhood Education

Historical and philosophical perspectives of early childhood education goals and practices, program models, and issues. (3)

ECHD 433 Primary Mathematics, Science, and Social Studies

Developmental theory and research in each of three curriculum areas. Foundation for selection and design of curriculum materials and activities appropriate for children in kindergarten and primary grades. Requires 25 clock hours of field experience. (3)

ECHD 434 Language Development

Language development from infants through primary-aged children. Topics include speech and language processes for communication, language development stages, theories of language acquisition, assessment of language development, and activities to foster language development. Attention to linguistically diverse populations as well as to children who develop differently from the norm. (3)

ECHD 437 Literacy in Early Childhood Development: Reading and Language Arts

Theory and research on literacy development. Selection and development of prereading/prewriting and reading/writing curricula for preschool, kindergarten, and primary grades. Emphasis on development of literacy in the primary grades. Prereq: Educ 407.(6)

ECHD 438 Early Childhood Curriculum: Infant/Toddler and Preschool/Kindergarten

Analysis of content, materials, and organization for instructing children in infant, toddler, preschool, and kindergarten programs. Requires 25 clock hours of field experience. (3)

ECHD 474 Student Teaching in Early Childhood Education: Preprimary/Kindergarten

Supervised observation and teaching in preprimary and primary settings. Students design and implement curriculum plans and assess individual child and group progress; observe role of family and community in child's education. Seminar discussions on educational setting and analysis of student's own role in classroom and community, teaching strategies, and individual problems. Prereq: all methods and field experience courses, minimum of 100 clock hours of field experience, successful completion of all required state certification tests, and written consent of instructor. (4)

ECHD 475 Student Teaching in Early Childhood Education: Primary

Supervised observation and teaching in preprimary and primary settings. Students design and implement curriculum plans and assess individual child and group progress; observe role of family and community in child's education. Seminar discussions on educational setting and analysis of student's own role in classroom and community, teaching strategies and individual problems. Prereq: all methods and field experience courses, minimum of 100 clock hours of field experience, successful completion of all required state certification tests, and written consent of instructor. (4)

ECHD 481 High Risk Young Child

Physical, social, psychological, and learning characteristics of the high risk young child. Overview of causation, prevalence, identification, and intervention strategies. Prereq: Sped 419 or consent of advisor. (3)

ECHD 482 Early Childhood Special Education Methods

Skills necessary for working with young children with special needs. Laws, assessment, family focus, intervention principles, appropriate techniques, suitable materials, and inclusion of children with special needs in early childhood settings; the development and implementation of IFSPs and IEPs. Requires 20 hours of field experience. Prereq: Sped 419 or consent of advisor. (3)

ECHD 484 Administration and Supervision of Early Childhood Education Programs

Analysis of curricula and organization of various kinds of early childhood programs. Examination of administrative structures and supervisory techniques. Practice

in planning, operating, and evaluating techniques. (3)

ECHD 486 Seminar in Early Childhood Education

Theories and principles of early childhood education and child development. Survey of current research with implications for curricula in variety of early childhood programs. (3)

ECHD 489 Topical Workshop

Topics of special interest to early childhood educators offered in a workshop format. Offered as needed. Prereq: consent of instructor. (1-6)

ECHD 495 Independent Study

Independent study conducted under guidance of College of Education faculty member. Proposal must state purpose of study, problem, methods of approach, and evaluation. Prereq: approval of detailed proposal by advisor and dean. (1-6)

Education: Elementary

Written permission of the assigned advisor is required for admission to any course in elementary education.

ELED 405 Foundations of Education

The role of education in contemporary US society; the teaching profession and the standards that define it; the philosophical and historical context of contemporary education in the US; and the conceptual framework of Roosevelt University's College of Education. A foundation for all other course work in the graduate elementary education program. Open only to graduate students in elementary education. (3)

ELED 408 Foundations of Teaching

Open only to META students. Formal study of educational philosophy and historical foundations of teaching. Content, philosophy, and sociology of student work centers on development of an educational philosophy which integrates instructional methods of mathematics and language arts. Computer literacy is infused throughout the program. Five full days are spent in school interacting with children and teachers at work. (7)

ELED 421 Mathematics in the Elementary School

Theory of mathematics curriculum. Texts, materials, and manipulatives used with children in teaching of

mathematics. Methods for implementing theoretical curricular approaches. Research and evaluation. 25 clock hours of field experience. Prereq: Educ 319, 405, 407. (3)

ELED 422 Teaching and Learning

Open only to META students. Study of instructional methods continued; emphasis on the social, psychological, and cognitive aspects of child development; integration of developmental levels, lesson planning and assessment in relation to reading methods of instruction. Students spend a minimum of five full days in the field. Prereq: Eled 408. (7)

ELED 423 Curriculum, Instruction, and Assessment

Open only to META students. Study of instructional methods culminating in completion of an integrated social science unit of instruction; emphasis on inclusion of students with special needs. Formal study of social sciences, integration of authentic assessment strategies, and classroom management techniques. Students spend a minimum of five full days in the field. Prereq: Eled 422. (7)

ELED 435 Curriculum and Methods for Teaching in the Elementary School

Open only to graduate students in elementary school teaching sequence. Content, materials, and methods of instruction in elementary school science, social studies, and language arts programs; observation and participation in classrooms. 50 clock hours field experience. Prereq: Read 420, Educ 421, and consent of advisor. (6)

ELED 470 Student Teaching and Seminar in the Elementary School

Open only to graduate students in elementary school teaching. Prereq: all methods and field experience courses, 100 clock hours of field experience, and consent of advisor. (6)

ELED 474 Internship and Seminar in the Elementary School

Open only to META students. Students complete a 15-week full-time clinical practice or student teaching/intern experience and participate in a weekly seminar. Following this semester, students who have completed all necessary requirements are eligible for certification to teach grades K-9. Prereq: Eled 408, 422, 423, and consent of advisor. (7)

ELED 496 Induction and Inquiry

Open only to META students. Two-semester (fall/spring) course for beginning teachers. Support for teachers in their first year of teaching and assistance in researching an important aspect of their pedagogical practice. Successful completion of an action research project and the first year of teaching results in a Master of Arts degree in education. Prereq: Eled 408, 422, 423, 474. (6)

Education: Language and Literacy

Written permission of the assigned advisor is required for admission to any course in language and literacy.

READ 420 Teaching Reading in the Elementary School

Theoretical approaches to teaching reading. Methods for implementing curricular theory through review of texts and materials. Research and evaluation issues. Prereq: Educ 319,405, 407. (3)

READ 432 Strategies and Materials for Teaching Language and Literacy

Strategies and materials in word recognition, word analysis, comprehension, and vocabulary development to meet specific instructional needs of students. 25 clock hours clinical experience. Prereq: Read 420 for Elementary education students. (3)

READ 434 Literature for Children and Adolescents

Advanced course in literature for children and adolescents including criteria for evaluating and analyzing literature. Literature as reflecting literacy heritage of America's multicultural and multiethnic society. Integrating literature throughout curriculum. (3)

READ 435 Approaches to Teaching Language and Literacy to the Learning Disabled

Selected theories of literacy and learning disabilities; emphasis on identification and assessment of learning disabled, reading problems, and strategies and techniques for working with learning disabled K-12. 25 clock hours clinical experience. (3)

READ 436 Foundations of Language and Literacy

Instruction

Theories and research in literacy including historical perspectives of developments in field, theories, and models. Focus on relationships between theory and instructional practice. (3)

READ 437 Principles and Practices in Language and Literacy Assessment

Formal and informal assessment tools used in accessing literacy and language-related abilities. Emphasis on use and interpretation of diagnostic measures and models of continuous assessment. 25 clock hours clinical experience. (3)

READ 438 Supervision of Personnel and Curriculum Development in Language and Literacy

Elementary and secondary school supervision and curriculum development in literacy. Selected curricula and planning of effective reading programs; functions and duties of reading teachers; strategies for supervision of personnel and staff development; application of research, experimentation and evaluation in curriculum study. (3)

READ 439 Young Adult Literature

Intensive study of critically acclaimed and popular texts written for teen audiences; the historical emergence of the genre; multiple readings through various critical lenses; methods of integrating young adult literature into middle school and high school curricula. (3)

READ 440 Literacy in Early Childhood Education: Reading and Language Arts

Theory and research on literacy development. Selection and development of prereading, reading, and writing curricula for primary grades. Requires 25 hours of field experience. Prereq: Educ 407. (6)

READ 452 Topical Workshop

Topics of special interest to students of language and literacy, offered in a workshop format. (1-6)

READ 461 Approaches to Teaching Literacy

Literacy development as a holistic process from kindergarten through adulthood. Reading and writing as reciprocal processes; theoretical and research bases for

whole language teaching and learning. (3)

READ 463 Teaching of Language and Literacy in the Content Areas

Strategies and materials for teaching elementary and secondary students to read and write in content areas. Development of concepts and vocabulary, comprehension and composition, and study skills. Focus on integrating reading and writing across the curriculum. (3)

READ 469 Practicum I: Clinical Practice in Literacy

Supervised diagnosis of literacy disability cases in grades K-12. Enrollment limited to majors in reading. (3)

READ 470 Practicum II: Clinical Practice in Literacy

Supervised remediation of reading disability cases in grades K-12. Read 469 and 470 combined provide 200 clinical hours. Enrollment limited to majors in reading. (3)

READ 480 Inquiry in the Classroom

Knowledge and practical experience in teacher research. Students extend reflective practice to conducting and writing research about their own teaching for the purpose of improving classroom practice. Prereq: student teaching or concurrent. (3)

READ 485 Technology in the Classroom

Use of computers in classroom instruction and classroom management. Concentration is on classroom use of general applications, educational software, and the Internet; focus on using technology for problem solving. Prereq: familiarity with basic computer applications. (3)

READ 495 Independent Study

Independent study conducted under guidance of College of Education faculty member. Proposal must state purpose of study, problem, methods of approach, and evaluation. (1-6)

Education: Secondary

Written permission of the assigned advisor is required for admission to any course in secondary education.

SEED 401 Seminar in Secondary Education

Principles and practices of secondary education, grades 6 through 12. Curriculum, instructional methods, approaches to assessment, reflective practice, student-centered learning. Requires 15 hours of field experience in a variety of educational settings. Prereq: consent of advisor. (3)

SEED 421 Methods of Teaching Secondary Business Education

Curriculum, instruction, standards, and assessment for business, economics, accounting, and keyboarding. Based on National Business Education Association standards for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: Seed 401 or concurrent. (3)

SEED 422 Methods of Teaching Secondary Science

Science curriculum and instruction, standards, and assessment. Based on National Science Teachers Association standards for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: consent of advisor. (3)

SEED 423 Methods of Teaching Middle School and Secondary Mathematics

Mathematics curriculum and instruction, standards, and assessment. Based on National Council of Teachers of Mathematics standards for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: consent of advisor. (3)

SEED 424 Methods of Teaching Secondary Foreign Languages

Foreign language curriculum and instruction, standards, and assessment. Based on Modern Language Association standards for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: consent of advisor. (3)

SEED 426 Methods of Teaching Secondary Social Studies

Experience and practice in social studies curriculum theory, research-based instruction, standards, and assessment. Based on standards of the National Council for the Social Studies for the design of student-centered programs, including courses, units, activities, and

learning experiences. Focus on grades 6-12. Prereq: Seed 401 or concurrent. (3)

SEED 427 Methods of Teaching Secondary English

Experience and practice in English language arts curriculum theory, research-based instruction, standards, and assessment. Based on standards of the National Council of Teachers of English for the design of student-centered programs, including courses, units, activities, and learning experiences. Focus on grades 6-12. Prereq: Seed 401 or concurrent. (3)

SEED 432 Methods of Teaching Secondary Theatre Arts

Theatre arts curriculum theory and application. Research-based instructional strategies for the design of student-centered programs, including courses, unit, activities, and experiences for secondary students in theatre arts. Prereq: Seed 401 or concurrent. (3)

SEED 450 Field Experience in Secondary Education

Observation and classroom experience in education settings. In-depth lesson and unit development and presentation using multiple methods and assessments. Focus on various classroom management approaches within the context of reflective practice. 60 hours field experience. Prereq: Seed 401 and consent of advisor. (3)

SEED 460 Student Teaching and Seminar in the Secondary School

Supervised observation and teaching in local junior or senior high school; seminar discussions of observational records, teaching strategies, evaluation, and individual problems. Emphasis on independence and skills through self-analysis techniques. Prereq: completion of all professional education coursework, 100 clock hours of field experience, and consent of advisor. See section on student teaching for other requirements. (6)

Education: Special Education

Written permission of the assigned advisor is required for admission to any course in special education.

SPED 419 Exceptional Children and Youth

Comprehensive overview of all types of exceptional-ity. Fulfills requirements of Illinois House Bill 150. Exceptional characteristics of mentally, physically, or

emotionally disabled children; the special instructional programs, practices, and facilities that help them realize their potential more fully. (3)

SPED 440 Assessment in Special Education

Test selection, classification, and placement decisions. Use of various techniques for evaluation of the progress of individuals in special education at all levels. Laboratory experience in administering, scoring, interpreting, and reporting test results. Prereq: Educ 419 or consent of instructor. (3)

SPED 442 Characteristics and Methods of Teaching Students With Cognitive Disabilities

Curriculum, major objectives of instruction, and specific methods and materials for teaching students with cognitive disabilities. Preparation of the Individualized Education Program (IEP) and transition planning; evaluation techniques; recent research. Prereq: Sped 419. (4)

SPED 443 Characteristics and Methods of Teaching Students With Behavior Problems

Functional assessment of behavior and the development of intervention plans to address behavior problems. Alternative resources, techniques of classroom management, and application of recent research. Prereq: Sped 419. (4)

SPED 445 Characteristics and Methods of Teaching Students With Physical and Other Health Related Disabilities

Educational considerations for students with physical disabilities and other health impairments. Emphasis on technology, assistive strategies, the principle of partial participation, and curriculum modification and adaptation. Recent research in disabilities that limit mobility, fine and gross motor skills, and independent living. Prereq: Sped 419. (4)

SPED 446 Characteristics and Methods of Teaching Students With Perception and Other Specific Learning Disabilities

Perception deficits and their impact on the learning process. Autism, traumatic brain injury, and specific learning disabilities. Emphasis on inclusion and the adaptation and modification of curriculum; current research. Prereq: Sped 419. (4)

SPED 461 Internship in Special Education

Five-week internship in special education setting;

hands-on work with students with special needs. Precedes student teaching; provides intensive experience across the spectrum of educational placements and age levels. Students participate in planning and implementing individual student, small group, and whole class lessons. Focus on IEP goal integration into planning. Weekly seminar sessions focus on the roles and responsibilities of the special educator. Prereq: all professional courses except Student Teaching. Concurrent enrollment in Sped 470. (3)

SPED 470 Student Teaching and Seminar in Special Education

Supervised observation and teaching in local K-12 school; seminar discussions concerning observational records, teaching strategies, evaluation, and individual problems. Ten-week experience in a special education setting. Emphasis on development of independence and skills. This course follows internship and provides intensive experience across the spectrum of educational placements and age levels. Prereq: all gen ed requirements, 100 clock hours of field experience, all professional courses, and consent of advisor. Concurrent enrollment in Sped 461. (6)

SPED 480 Inquiry in the Classroom

Knowledge and practical experience in teacher research. Students extend reflective practice to conducting and writing research about their own teaching for the purpose of improving classroom practice. Prereq: student teaching or concurrent. (3)

SPED 482 Early Childhood Special Education Methods

Skills necessary for working with young children with special needs. Laws, assessment, family focus, and inclusion of children with special needs in early childhood settings; the development and implementation of IFSPs and IEPs. Requires 20 hours of field experience. Prereq: Sped 419 or consent of advisor. (3)

Education: Teacher Leadership

Written permission of the assigned advisor is required for admission to any course in teacher leadership.

TLED 430 Engaged Learning in the Classroom

Instructional methods and technology tools to create

an engaged learning classroom. Example of an engaged learning lesson designed to meet the criteria for constructivist student learning. Procedures to create interactive web pages that promote online, engaged learning processes for students from primary through high school levels. Focus on the application of authentic assessment tools and portfolios. (3)

TLED 431 Portfolio-Based Assessment in Schooling

Instructional and multimedia methods and technology tools that can be used to create web-based, digital portfolios and portfolio conferences that support the engaged learning classroom. The evolution of portfolio assessment in education; current examples of portfolio applications in schooling. (3)

TLED 432 Problem-Based Learning

Design and implementation of problem-based learning (PBL) curriculum units at the elementary, middle, or high school levels, employing authentic problems as the impetus for student learning. The promotion of engaged learning through immersion of students in "ill-structured," open-ended problems or controversial issues. Focus on brain-compatible learning; self-evaluation by engaged participants in their instructional practices. (3)

TLED 433 Evaluating the Classroom: Issues, Tools, and Techniques

Various types of classroom assessment; students learn to use and interpret results to improve teaching and learning. Development, implementation, and evaluation programs. Understanding of instructional models and approaches to determining effects. (3)

TLED 435 Leadership in Professional Development

Preparation for leadership roles in schools and districts. Various strategies for promoting teachers' growth. Analysis of school cultures, inservice workshop models, informal staff development activities, classroom observation, and approaches to supervision for working with both experienced teachers and pre-service education students. (3)

TLED 436 Rethinking Curriculum for Schools

Curriculum theory and its practical application; analysis of curriculum including instruction; limitations and variations of possible and existing designs. Teachers as curriculum-makers and catalysts for change. (3)

TLED 438 Contemporary Approaches to Teaching

Characteristics of the learner-centered classroom; cooperative and problem-based learning; curriculum integration and promotion of critical thinking skills. (3)

TLED 440 Positive Discipline in the Classroom

Examination of where and why student behavior problems exist. Cooperative learning as well as other teaching strategies to enable teachers and students to build a community of learners who want to be responsible for their own behavior. (3)

TLED 441 Psychological Perspectives of Human Development

Theory and research on human development. Neurobiological, psychoanalytic, behavioral, humanistic, cognitive, and socio-cultural perspectives. Lifespan stages provide the time frame for the course sequence. Emphasis on preparing and advancing the educational practitioner. (3)

TLED 442 Perspectives on Best Practices in Teaching

Dynamic relationship of school to the family, community, and larger society. Notions of school and instructional improvement as they relate to the expanding role of the teacher as practitioner, curriculum maker, and staff developer. Current theory and research on the process of learning and teaching. (3)

TLED 443 Preparing to Become a Master Teacher

Foundation that prepares teachers to complete the process of National Board Certification. Development of reflective practitioners through a series of field-based activities. Participants analyze student work, their teaching practice, and their level of professional and community involvement. (3)

TLED 480 Inquiry in the Classroom

Knowledge and practical experience in teacher research. Students extend reflective practice to conducting and writing research about their own teaching for the purpose of improving classroom practice. (3)

Educational Leadership and Organizational Change

Written permission of the assigned advisor is required for admission to any course in educational leadership and organizational change.

ELOC 401 Analysis and Interpretation of Data for Testing and Research

Interpretation of statistics commonly found in educational research and testing literature. Content areas of descriptive and inferential statistics. Analysis of research data and computer output; application of concepts and skills to work as instructional leaders. Prereq: admission to MA program in ELOC. (3)

ELOC 402 Action Research Methods

Students study a problem in their respective social context; principles, concepts, and multiple methods of inquiry; inquiry through participatory, interpretive methods of research. Research for social change and organizational improvement. Prereq: admission to MA program in ELOC. (3)

ELOC 411 Social Foundations of Diverse Communities

Social problems of education from a sociological, social psychological, and anthropological perspective. Emphasis on key concepts derived from these disciplines as they apply to problems faced by teachers, counselors, and administrators with an analysis of implications for a diverse community. Interpersonal communications within the school and between school and community. Clinical experiences. (3)

ELOC 430 Theory and Practice in Educational Leadership

Organization, administration, and supervision of schools. Theories, research, principles, and practices that facilitate the leader's interaction with school personnel and the community within the learning organization. Theories of transformational leadership, organizational development, open social systems, shared decision making, and the learning organization. Societal and technological trends that impact the delivery of effective school programs. (3)

ELOC 432 Legal and Financial Issues of Educational

Leadership

Complexity of legal, financial, and social issues affecting educational organizations as these issues relate to school and society. Federal and state mandates as they affect special populations. (3)

ELOC 439 Special Education for Educational Leaders

Major concepts in special education which affect educational leaders including legal issues, state and federal mandates and cases, and political, multicultural, and socioeconomic issues regarding the exceptional learner. (3)

ELOC 451 The Leader's Role in Curriculum Development

Multiple and competing conceptions of curriculum; practices, principles and procedures of elementary and secondary school supervision of personnel; curriculum development; and examination of academic achievement and school improvement. Analysis of research and evaluative techniques to improve curriculum planning. (3)

ELOC 455 Authentic Assessment

Introduction to authentic performance-based assessment, assessment tasks, and models for self-corrective performance; development of appropriate rubrics for assessment; overall development of assessment plans for appropriate ages and grade levels. (3)

ELOC 463 Practicum in Educational Leadership: Part 1

Theoretical bases of educational leadership, selecting a site for the practicum, developing a plan, and making agreements for the work to follow. Written documentation, rubrics, and methods of evaluation are established. Students select the theory which informs their work. Multiple projects may be selected. Emphasis on connecting theory to practice, communication with parents and community stakeholders, and supervisory skills. Prereq: six courses or 18 hours of course work in the program minimum. (3)

ELOC 464 Practicum in Educational Leadership: Part 2

Working with a local educational leader, the student develops the requisite knowledge, skills, and attitudes for coping with the problems of educational leadership; a variety of projects related to educational leadership and organizational change; curriculum development; staff supervision and development; the financial and legal management of schools; communication with parents and the community. Prereq: Eloc 463. (3)

ELOC 495 Independent Study: MA Level

Independent study under the guidance of College of Education faculty member. Proposal must state purpose of study, problem, methods of approach, and evaluation. Used only under special circumstances and never if a course in that topic area exists. Prereq: approval of proposal by advisor and dean. (1-6)

ELOC 533 Seminar on Diversity, Schools, and Communities

Social policy issues and their impact on education. Topics include urban education, social change, the systems thinking model of organization, and the relationship between school and society. Other topics include race, social class, gender, finance, community involvement, historical development of education, sociology and philosophy of education, and the shaping and implementation of educational policy. The effect of changes in the social and political environment on the role of the school leader. Prereq: admission to the EdD program. (3)

ELOC 534 Quantitative Research Methods

Knowledge and skills needed to interpret and conduct quantitative educational research. Analysis of research results and computer output to promote school improvement. Problem-solving and decision-making skills required in educational leadership. How to employ findings from research. Prereq: admission to the EdD program. (3)

ELOC 535 Qualitative Research Methods

Knowledge and skills in qualitative research techniques. Interview, observation, archival, and oral history skills. Students select a qualitative inquiry approach to inform their work including, but not limited to, phenomenological study, case study, historical/narrative study, ethnographic study, and grounded theory. Prereq: admission to the EdD program.

ELOC 536 The Dynamics of Maintaining and Improving School Culture

Educational leader's role as mediator, negotiator, problem solver, shared decision maker, and strategist in creating a positive organizational climate. Emphasis on the leader's role as change agent and interpreter of policy to the community and the public. Strategies for creating a culture among all stakeholders that promotes student learning and organizational improvement. Topics include school culture, organizational theory and culture, educational planning,

and change strategies. Prereq: admission to the EdD program. (3)

ELOC 537 Advanced Legal, Financial, and Social Issues for Educational Leaders

State and federal laws; financial dimensions of legal issues; Illinois School Code interpreted by recognized legal authorities; recent case law; federal, state, and municipal regulations; school board policies; teacher and student rights and responsibilities; and collective bargaining. Students connect law and finance to particular cases in their own social context and current social problems. Prereq: admission to the EdD program. (3)

ELOC 538 The Politics of Education

Political dimensions of educational institutions in an open-systems context including authority, school governance, influence, negotiation, lobbying and power. The influence of the educational leader on the political environment of the school at the local, state, and national levels. Political dimensions of educational institutions examined through clinical experiences including case studies, simulations, analyses of communication and community relations. Prereq: admission to the EdD program. (3)

ELOC 540 Seminar in Curriculum Issues and Assessment for Educational Leaders

Knowledge and skills needed for leadership in curriculum design, development and implementation, and assessment. Emphasis on current curriculum issues and trends in curriculum development. Authentic assessment methods, tasks, rubric development, and assessment plans related to curriculum. Prereq: admission to the EdD program. (3)

ELOC 589 Research Writing

Models for good research writing in primary and secondary research papers. All aspects of writing including structure, grammar, and proper APA style with extensive feedback. May be required as a prerequisite for continuation in the program. Does not count as an elective. Prereq: admission to the EdD program.

ELOC 594 Topics in Educational Leadership

Topics of interest to educational leaders in a seminar format. Prereq: admission to the EdD program. (3)

ELOC 595 Independent Study: EdD Level

Independent study conducted under guidance of College of Education faculty member. Proposal must state purpose of study, problem, methods of approach, and evaluation. Prereq: admission to the EdD program and approval of detailed proposal by advisor and dean. (1-6)

ELOC 661 Program Evaluation

Skills needed by educational leaders to evaluate organizational performance. Focus on formative and summative evaluation techniques. Theories, principles, and concepts of program evaluation. Prereq: admission to the EdD program. (3)

ELOC 663 Internship in Educational Leadership: Part 1

Theoretical bases of educational leadership; selecting a site, developing a plan, and making agreements for the work to follow. Written documentation, rubrics, and methods of evaluation are established. Students select the theory which informs their work. Multiple projects may be selected. Emphasis on connecting theory to practice, communication with parents and community stakeholders, and supervisory skills. Prereq: admission to the EdD program. (3)

ELOC 664 Internship in Educational Leadership: Part 2

Working with a local educational leader, student develops the requisite knowledge, skills, and attitudes for coping with the problems of educational leadership in an actual site with a site supervisor. Variety of projects related to educational leadership and organizational change; curriculum development; staff supervision and development; the financial and legal management of educational institutions; communication with parents and the community. Prereq: Eloc 663 and admission to the EdD program. (3)

ELOC 667 Curriculum Theory

Major theoretical bases for curriculum; conflicting conceptions of curriculum and curriculum inquiry. Prereq: admission to the EdD program. (3)

ELOC 675 Seminar in Leadership for Effective Organizations

Development and integration of human and technical skills needed to implement planned change. Conflict management, shared decision making, interpersonal

communications, group processes, and transformation of staff; relationship to improving organizations as open systems. Classic and current leadership theories and practice. Prereq: admission to the EdD program. (3)

ELOC 680 Seminar in Ethics and Educational Leadership

Ethical issues confronting leaders. Values and ethics of educational decision making; decisions associated with leadership and organizational improvement. Students develop a statement of ethical responsibility. Prereq: admission to the EdD program. (3)

ELOC 685 Advanced Quantitative Methods

Further experience in designing and analyzing quantitative data to improve educational decision making. Methods of quantitative analysis to enhance the information-gathering ability of educational leaders with the goal of organizational improvement. Analytic methods are related to inquiry. Prereq: Eloc 534 and admission to the EdD program. (3)

ELOC 686 Advanced Qualitative Methods

Continuing practice and study in oral history, narrative research methods, archival methods, case study, and ethnographic field research methods. Students analyze and interpret data; possible pilot study for the dissertation or other research depending on student progression. Prereq: Eloc 535 and admission to the EdD program. (3)

ELOC 689 Dissertation Writing Methods

Development of a proposal for the EdD dissertation. Emphasis on purpose of the study, literature which informs the study, and clear description of the method. The elements and phases of proposal writing from generating ideas for a research topic to integrating components of the proposal into a coherent document. Prereq: completion of all coursework in ELOC. (3)

ELOC 690 Dissertation

Research and writing of dissertation under individual direction. Student defines, designs, and implements original research project. Minimum of three credit hours required upon passage of the dissertation proposal and one credit hour thereafter until student completes the final defense of the dissertation. Prereq: admission to candidacy for EdD in ELOC. (1-6)

Elementary Education

(See: Education: Elementary)

English

ENG 401 Introduction to Graduate Study in English

Research in the humanities at the graduate level. Reference materials and how to use them effectively. Focus on the development of critical thinking and expression skills as well as proficiency in analysis of primary and secondary sources. Requires a written research project. (3)

ENG 406 Fundamentals of Film Studies: American Cinema

Film and its American practitioners. Emphasis on basic techniques and vocabulary for analyzing and writing about film and reading film theory. Attention to prominent directors and popular genres, such as the thriller, melodrama, Western, buddy picture. (3)

ENG 407 Film History

History of the medium with attention to technological, aesthetic, and cultural developments and influences. Secondary focus varies by semester but may include spectacle, independent film, sound, or auteur theory. (3)

ENG 408 Topics in Film

Detailed study of a genre, a director, a national cinema, or a theoretical question in film studies. Subjects vary by semester but may include film and gender, film noir, new German cinema, women directors, African-American cinema, or theories of spectatorship. Prereq: Eng 406 or 407. (3)

ENG 409 Topics in Film and Literature

Detailed study of a particular intersection of film with literature. Subjects may include Shakespearean adaptations, plays adapted to the screen, adaptations of the American or British novel, or the influence of poetry on film in the work of independent and experimental film makers. Prereq: Eng 406 or 407. (3)

ENG 410-419 Advanced Studies in British Literature

Period-based study of significant literary topics in British literature. Emphasis on the interpretation of literary

texts within the context of specific cultural formations and developments. Topics may include early modern plays and pamphlet literature; non-Shakespearean early modern drama; revolution, rights, and Romanticism; women writers and the world wars; anxieties of empire in British literature. (3)

ENG 420-429 Advanced Studies in American Literature

Period-based study of significant literary topics in American literature. Emphasis on the interpretation of literary texts within the context of specific cultural formations and developments. Topics may include early American novel, American Gothic, 19th-century American poetry, 20th-century women's fiction, American literature since 1945, and 20th-century literary naturalism. (3)

ENG 430 Post-Colonial Literature

Anglophone literature of all genres from Africa, the Caribbean, and South Asia in the aftermath of the British Empire. Literary response to cultural and linguistic colonization; analysis of national identity, cultural hybridity, and post-colonial subjectivity, and redefinitions of race and gender. (3)

ENG 431A Fiction Writing I

Workshop on the craft of the short story; emphasis on the various means of storytelling: point of view, tone, character development, and plot. Prereq: MFA standing or consent. (3)

ENG 431B Fiction Writing II

Workshop explores the issues of craft and technique established in the introductory workshop. Students will be expected to further develop their own personal voices both as writers and as critics. Prereq: Eng 431A or consent. (3)

ENG 431C Fiction Writing III

Workshop further develops the advanced writer's craft; some emphasis on preparing fiction manuscripts for submission and publication. Prereq: Eng 431B or consent. (3)

ENG 432A Poetry Writing I

Students compose and revise their own poetry while studying the foundations of poetry, including classical metrical poetry, and today's more eclectic free verse.

Prereq: MFA standing or consent. (3)

ENG 432B Poetry Writing II

Designed for students who have had the introductory course; focus on issues raised by contemporary poetry in their own compositions. Prereq: Eng 432A or consent. (3)

ENG 432C Poetry Writing III

Advanced poets focus on their craft and on preparing their compositions for public reading, submission, and publication. Writers will be encouraged to compile individual poems into unified collections with the thesis in mind. Prereq: Eng 432B or consent. (3)

ENG 433A Play Writing I

Monologues to one-acts. Basic concepts of writing for live performance: dialogue, action, characterization, plot, and climax. Monologues written for one actor, two-person scenes, three-person scenes, blackouts, short skits, and comedy scenes. Students will write and read from their work and supplement their own writing with readings of contemporary authors. Prereq: MFA standing or consent. (3)

ENG 433B Play Writing II

One-acts to full-length plays. Advanced skills such as secondary characters and plots, the use of literary devices in a performance context, and the relationship of the play to the audience. Students will continue with the workshop process and conclude the class with staged readings of their works. Prereq: Eng 433A or consent. (3)

ENG 433C Play Writing III

Play in production. Advanced writers develop a script through participation with directors and actors in a full workshop production. The writer engages in all aspects of the production, from casting through rehearsals to performance, and assesses the play's success through audience feedback. Prereq: Eng 433B or consent. (3)

ENG 434A Creative Nonfiction I

Techniques of nonfiction storytelling analyzed and practiced with emphasis on personal narrative, including memoir. Prereq: MFA standing or consent. (3)

ENG 434B Creative Nonfiction II

Continuation of studies in style, narrative, and structure; students develop non-autobiographical work while maintaining a personal, audience-oriented voice. Basics of creative research. Prereq: Eng 434A or consent. (3)

ENG 434C Creative Nonfiction III

Advanced writers develop longer works and practice the process of collecting pieces into book-length volumes intended for publication. Prereq: Eng 434B or consent. (3)

ENG 437 Screen Writing

Students produce a full-length screenplay in a workshop atmosphere, practicing techniques used by professional screen writers to create complex characters, thrilling action, and original plots. Some attention to marketing the screenplay, including the treatment and pitch. Prereq: Eng 406, 407, MFA standing, or consent. (3)

ENG 440-449 Advanced Studies in Theme or Movement

Intensive study of literary texts that share philosophical concerns, motifs, or historical perspectives. (3)

ENG 450-459 Advanced Studies in Literary Genre

Detailed theoretical examination of a literary genre including novel, lyric, satire, autobiography, drama, and others. Attention to structure and typical cultural preoccupations of various forms. May follow development of a genre across a broad time span or during a particular historical movement. (3)

ENG 460 Topics in Shakespeare

Advanced study of specific issues or themes in a group of Shakespeare's works. Points of focus might include the approaches to history in the two Henriads; the verse structure of the sonnets as compared to that of the plays; representations of women in drama. (3)

ENG 461-464 Studies in a Single Author

Detailed study of one writer in his/her cultural context. Courses recently offered include Jane Austen, Walt Whitman, Eugene O'Neill, Toni Morrison, Aphra Behn, and Mark Twain. (3)

ENG 462 Shakespeare

Intensive study of selected works focusing on a specific theme. (3)

ENG 465 Literary Theory and Criticism

Critical methods of significant literary theorists, ancient and modern. Writing assignments involve hands-on application of theories to specific literary texts. Required of all English MA students; should be taken during first year of enrollment. (3)

ENG 466 Advanced Studies in Critical Theory

Intensive study of one or two schools of critical theory (post-structuralism, post-colonialism, Marxism, feminism, theories of ethnicity, cultural studies) and their implications for study in language, literature, and representation. Primary readings in theoretical texts with consideration of their implications for practice. (3)

ENG 467 Studies in Composition Theory

Cultural, cognitive, and political theories about the acquisition and practice of advanced literacy skills. The roles that reading, direct grammar instruction, rhetoric, and revision play in various approaches to the teaching of writing. (3)

ENG 480 History of the English Language

Historical and sociolinguistic development of the English language, focusing on its sounds, grammar, and vocabulary, as well as on current-day cultural contexts for language differences. (3)

ENG 483 Literary Magazine Production

All student staff edits *Oyez Review*, a literary journal featuring fiction, poetry, and creative nonfiction, published at Roosevelt for 35 years. Hands-on internship in editing, designing, producing, publicizing, and distributing the journal. Some instruction in protocols for book, magazine, and newsletter publishing. (3)

ENG 484 Internships in the Community

Student uses writing or teaching skills as an apprentice outside the University. Placements may include local arts organizations, book and journal publishers, not-for-profit organizations, corporations, museums, or youth and senior centers. Student receives on-site supervision and instruction and also works closely with a faculty advisor. (3)

ENG 485 Internship in the Teaching of Literature

Student is apprenticed to an experienced teacher in an English literature course and participates in class planning and procedures. Construction of syllabus, lesson plans, lectures, writing assignments, and tests supplemented by classroom experience in facilitating discussions and supervising student progress. Prereq: sufficient advanced course work in area of internship and consent of instructor and program coordinator. (3)

ENG 486 Internship in the Teaching of Creative Writing

Student is apprenticed to an experienced teacher in Introduction to Creative Writing and participates in most aspects of class planning and procedure. Construction of syllabus, lesson plans, lectures, and writing assignments as well as experience in leading critique of student writing and discussion of works by established authors. Pedagogical philosophies governing the teaching of creativity in the college classroom and at the primary and secondary levels. Prereq: three creative writing workshop courses and consent of the instructor and program coordinator. (3)

ENG 487 Internship in the Teaching of Composition

Student is apprenticed to an experienced teacher in a composition course and participates in class planning and procedure. Readings in composition theory supplemented by classroom observation and tutoring under supervision of director of composition. Prereq: consent of director of composition and program coordinator. (3)

ENG 489 Directed Readings

Closely supervised study focusing on the master's reading list for the written and oral qualifying examinations. Students must have completed or be simultaneously enrolled in final course work. (3)

ENG 490 Thesis

Prereq: consent of instructor. (3)

ENG 495 Independent Study

Intensive study and original scholarship culminating in a written project. Topic to be developed by student in consultation with appropriate faculty member. Prereq: Eng 401 and program consent. (3)

Ensemble

(See: Music: Ensemble)

Environmental Science

ENVS 414 Introduction to Geographic Information Systems

Principles and methods of geographic information systems (GIS); emphasis on spatial data; overview of data structures, data types, methods of data analysis and manipulation and applications. Practical experience with GIS through computer and manual exercises. (3)

ENVS 416 Advanced Geographic Information Systems

Further development of hands-on skills in the use of standard geographical information systems (GIS) software; overview of ARCGIS software; GIS implementation; acquiring, converting, and integrating data; creating GIS layers (themes) in multiple formats; editing and correcting GIS layers; developing processes to modify data and conduct geographical analyses; customizing applications; and presenting results from a completed GIS project. Prereq: Envs 414. (3)

ENVS 480

Students work on an independent project in a field of interest with faculty supervision and guidance. Prereq: Geog 316. (3)

Fast Track: Theatre

Descriptions for Fast Track courses may be obtained by calling the Theatre Conservatory office at 312-341-3719.

Finance

FIN 408 Finance for Decision Makers

Financing problems facing business; general principles of accounting and economics applied to solution of these problems. Time value of money applied to the pricing of securities, firms' capital budgeting decisions, financial statement analysis, forecasting immediate cash flow problems, financing of the firm, and consequences for the firm's decision-making process. Prereq: Acct 405, Mgmt 403. (3)

FIN 454 Global Financial Management

The importance of international financial markets, international organizations, and global macroeconomic developments in the financial management of multinational businesses. Emphasis on foreign currency and interest rate arbitrage, exchange rate determination, and foreign exchange risk management. Prereq: Fin 408. (3)

FIN 482 Theory and Cases in Financial Management

Advanced course in corporate finance. Topics include capital budgeting, capital structure, management of working capital, and special topics chosen by the instructor. Prereq: Fin 408. (3)

FIN 483 Capital Markets and Financial Institutions

Topics in money and banking including monetary theories and the theory of interest. Financial institutions and their regulation; focus on deposit type institutions. Derivative securities and their pricing with application of financial intermediaries. Prereq: Fin 482. (3)

FIN 485 Investment Theory

Financial securities and their markets including stocks, bonds, and other long-term securities. Portfolio theory and pricing theories including the capital asset pricing model, the arbitrage pricing model, and their applications to individual and institutional investment decisions. Retirement and other long-range planning. Prereq: Fin 408. (3)

FIN 487 Advanced Financial Instruments

Financial derivatives, such as futures, forward contracts, options, and swaps; markets for derivatives; pricing theories using the arbitrage principle. Use of derivatives to hedge and transfer risk. Prereq: Fin 485. (3)

FIN 493 Special Topics

Content varies. (3)

FIN 495 Independent Study in Finance

Intensive study of a finance topic under the direction of a finance faculty member. The project is selected by the student with approval of the supervising faculty member, school director, and dean. (1-3)

Financial Services

FNSV 410 Insurance and Risk Management Industry

Operations of the insurance industry and its interactions with risk management. Basic and advanced industry operations such as reinsurance and specialty lines of coverage. The pressures faced by both sides of the insurance equation. (3)

FNSV 430 Employee Benefits

Designed for students of risk management, insurance, management, and human resources. In-depth introduction to the area of employee benefits. The employer and benefit provider's perspectives in the design and implementation of employee benefit programs. (3)

FNSV 450 Risk Management

Capstone course for the insurance and risk management concentration. Synthesis of material covered in the MBA curriculum under the rubric of risk management. Exposure to traditional and nontraditional worlds of risk management; the decision process in traditional risk management and financial risk management; the emerging field of enterprise risk. (3)

History

HIST 400 The Ancient World

The classical societies of the ancient Mediterranean world; the Greek city state; the rise of Rome; and the nature and decline of the Roman Empire. Prereq: graduate standing. (3)

HIST 401 Introduction to Graduate Studies

Tools for beginning researchers in history. Empirically based course drawing on biographical and historical materials. Primary documents such as letters, diaries, government and documents. Bibliographical tools from traditional bound sources to contemporary online reference materials. Evaluation of evidence, development of convincing arguments, and familiarity with style sheets. (3)

HIST 402 Renaissance and Reformation

Society, economics, ideals, and politics in Western Europe from the mid-13th century to 17th-century religious wars. Prereq: graduate standing. (3)

HIST 403 The Immigrant in the History of the United

States

Reading and research on changing trends in immigration, assimilation efforts, and immigrant politics and policies. (3)

HIST 404 Camelot to Watergate: United States, 1960 to 1974

Policies and culture of the US from 1960 through the resignation of President Nixon. (3)

HIST 405 Modern Imperialism

The overseas expansion of Europe and the US in the 19th and early 20th centuries including their conquest, administration, cultural, and technological transformation, and economic exploitation; anticolonial movement and wars of national liberation; and decolonizations after World War II. (3)

HIST 406 The World Since 1945

Main currents in development of global institutions and values from 1945 to present. (3)

HIST 407 History of Metropolitan Chicago

Growth of the city and suburbs, land use and economy, changing ethnic and social components, and politics and culture. (3)

HIST 409 19th-Century Europe

The long European peace from Waterloo to the outbreak of World War I; Industrial Revolution; unification of Germany and Italy; rise of liberalism, nationalism, and socialism; tensions and rivalries at the turn of the century; and expansion of European colonial empires. (3)

HIST 410 Europe from Absolutism to Revolution, 1600 to 1789

European society and government from the height of absolute monarchy to the dawn of democracy. Social and cultural trends; Scientific Revolution and Enlightenment; the rise of European overseas empires. (3)

HIST 411 The Society and Culture of Medieval Europe

Social, cultural, and political institutions in Western Europe from later Roman Empire to mid-15th century. (3)

HIST 414 The Native American in the History of the

United States

Survey of Native American life in relation to colonization, expansion of the US, and modern American society. (3)

HIST 415 Latin America to Independence

Central and South American Indian societies. Topics include socioeconomic, political, religious, cultural, and racial history of colonial societies through wars of independence. (3)

HIST 416 Latin America Since Independence

Socioeconomic structures, law and politics, ideologies, growth and distribution of power and resources, religious culture, reform and revolution from independence to present. (3)

HIST 417 The French Revolution and Napoleon

Collapse of Old Regime, course of revolution, Napoleonic era, impact of revolution on Europe and world. Historical controversies. (3)

HIST 420 Major Western Revolutions of Modern History

Causes, development, and impact of major revolutions and revolutionary ideologies in the Western world beginning with Puritan revolution in England. (3)

HIST 421 20th-Century Europe

Political and social history of Europe in the 20th century. Topics include the two world wars, fascism and communism, decline and fall of colonial empires, Cold War, recovery and prosperity after World War II, European unification, collapse of the Soviet Union, and Western European revolutions. (3)

HIST 423 The Urban Vision: Cities and Suburbs in American Thought and History

Intellectual and social history of US cities from colonial small town to 21st-century megalopolis. Focus on environment, politics, immigration, race and ethnicity, work, family life, reform, mass culture, and suburbanization. (3)

HIST 425 Diplomatic History of the United States

Development of American foreign relations from American Revolution to the present. Topics include manifest destiny and expansionism; imperialism of 1890s; US rise to global power in the 20th century; and the end of the Cold War. Prereq: graduate standing. (3)

HIST 426 Topics in American Social History

Topics include gender roles, gender and labor, childhood in America, and the West in American history. (3)

HIST 427 United States Labor History

Development of labor organizations from 1840 to present and changing lifestyle of the laboring population. (3)

HIST 430 Colonial and Revolutionary America

Evolution of colonial American social, economic, and political institutions. (3)

HIST 431 Constitutional History of the United States

Major topics in American Constitutional development from colonial beginnings through the 20th century. (3)

HIST 433 The American Civil War and Reconstruction

Causes of Civil War; the interrelationship between government and partisan politics; the advent of central state authority; the role of slavery; and the controversies surrounding Reconstruction as seen within a national context. (3)

HIST 437 History of United States Reform Movements

Analysis of reform movements including abolitionism, populism, progressivism, New Deal, the 1960s, and recent reform movements. (3)

HIST 439 The African-American Experience in 20th-Century America

Explores topics from the era of Booker T. Washington to the present with emphasis on African-American protest movements. (3)

HIST 441 Topics in European History

Topics may include Russian and Soviet histories; class formations and divisions, intellectual currents, and revolutionary upheavals. (3)

HIST 442 Topics in World History

Asian, African, and European studies; topics may include global linkages. (3)

HIST 446 History of World War II

Causes, campaigns, home fronts, and diplomacy of the war, including analysis of its effect on human affairs worldwide. (3)

HIST 447 History of the Vietnamese Wars

Roots of Vietnamese revolution. Topics include struggle between French and Viet Minh, the American-Vietnamese war, and emphasis on international and domestic consequences. (3)

HIST 448 History of Nationalism

Content and issues of one of the most important currents of modern history; basic historical methodologies. See also Pos 447. (3)

HIST 449 North American Slavery

Study of Atlantic slavery with emphases on slavery in Africa, European labor needs in the New World, emergence of chattel slavery in the US, and on the character of a transformed African population. (3)

HIST 450 Graduate Seminar

Historiographical exploration and research of a selected and significant topic. (3)

HIST 451 The United States in the Early National Period, 1789 to 1829

Emergence of a new government under the Constitution of 1787; appearance of political parties around Hamilton, Jefferson, and Madison; constitutional issues; start of the market revolution. (3)

HIST 452 The Making of Modern America, 1880 to 1929

Populism, the Progressive Movement, immigration, rise of Jim Crow, nationalism, and emergence of the US as a world power. (3)

HIST 453 America Transformed, 1929 to 1945

Study of the tumultuous years from the Great Depression through World War II with emphasis on social, political, and cultural history. (3)

HIST 456 Nazi Germany

Political, social, intellectual, and economic precondi-

tions for rise of Third Reich; survey of institutions, ideology, and techniques of totalitarian rule. (3)

HIST 457 The United States, 1945 to Present

Major issues that have shaped the US in recent decades emphasizing both domestic, social, and political history and foreign policy. (3)

HIST 465 Black Chicago's History and Culture, 1770 to 1960

The role and impact of the African-American community on the culture, society, politics, and economy of the City of Chicago from DuSable to 1960. (3)

HIST 466 The Holocaust in Historical and Philosophical Perspective

The background, causes, events, impact, and implication of the destruction of the Jews in Europe. Prereq: graduate standing. (3)

HIST 467 Love, Sex, and Marriage in the Western World

Attitudes and behavior concerning love, sex, marriage, and their interrelationships with broader social, cultural, and political trends in Western civilization. (3)

HIST 468 Antebellum America, 1828 to 1860

Political re-formation from the election of Andrew Jackson to the election of Lincoln; Jacksonian Democracy; importance of slave labor and wage labor as cores of the market economy; religious-based reform; countervailing influences of nationalism and sectionalism. (3)

HIST 470 History of Africa After 1500

The influence of European and Asian contacts on the African continent; the transatlantic and Middle Eastern slave trades; state formation; resistance to the rise of European colonial domination. Prereq: graduate standing. (3)

HIST 471 Modern and Contemporary Africa

The rise of nationalism; end of colonialism; rise of neo-colonialism; Cold War influences; managing the problems of independence. Prereq: graduate standing. (3)

HIST 472 History of American Family Life

Child-rearing practices, role of men and women in family structure, education and welfare, and impact of

technological change on family life. (3)

HIST 477 Environmental History

The impact of human activities on the natural environment. Agriculture, irrigation, fishing, industrialization, and population growth and their effects on the lands and waters of North America and the tropics from 1492 to the present. Prereq: graduate standing. (3)

HIST 482 Black Chicago's History and Culture Since 1960

The status of African Americans in Chicago since the civil rights era; resurgent movements in politics, protest advocacy, economic empowerment, and culture. (3)

HIST 483 History and Politics of Women in the United States

Women in the US from colonial times to the present. Emphasis on the women's rights movement and feminism, work, family, health, and education. Issues of class, race, ethnicity. (3)

HIST 486 History of United States-Canadian Relations

Exploration of US-Canadian relations from the colonial period to the war on terrorism in 2002. Special emphasis on late 20th century, current relationships, and Quebec-US relations. (3)

HIST 488 History of Canada

From Viking discovery to the NAFTA treaty. Emphasis on 20th-century Canada, development of Quebec nationalism, United States-Canadian relations, and the growth of a multicultural nation. (3)

HIST 490 Thesis

Prereq: consent of instructor. (3)

HIST 491 History of Mexico

Social, economic, political, and cultural development of Mexican society from its pre-Hispanic roots through Spanish conquest, independence movements; the Revolution, and evolution into modern Mexican society. (3)

HIST 495 Independent Study

Prereq: consent of instructor. (3)

Hospitality and Tourism Management

HOSM 400 Issues and Trends in Hospitality and Tourism Industry Management: A Forum for Leadership Development

Comprehensive review of the hospitality and tourism industry. Presentations and dialogue with executives in the field. Topics include lodging; food and beverage; meeting, convention, and exposition management; government; transportation; and associations. (3)

HOSM 410 Applied Research Methods in Hospitality and Tourism Management

Data, methods, and analytical techniques necessary for leadership in new business realities. Basic statistical and analytical tools. Sources of data such as online services, focus groups, and surveys. Analytical tools such as factor and cluster analysis. Modeling techniques such as simulation, animation, and GIS (geographic information systems). (3)

HOSM 412 Training and Development in the Hospitality and Tourism Industry

How to design a learning atmosphere to produce change in the workplace environment. Interactive components of training systems as they relate to the hospitality and tourism industry including needs assessments, instructional design, learning and transfer, delivery methods, and evaluation. Theoretical background and practical application. (3)

HOSM 420 Management Theories and Practices in the Hospitality and Tourism Industry

Topics may include management processes, change, delegation, motivation, selection, evaluation, compensation, leadership, and training. (3)

HOSM 430 Operations Analysis

Business and financial reports typical of hospitality and tourism operations; preparation and analysis of profit and loss statements. (3)

HOSM 440 Organizational Development, Multiculturalism, and Cultural Diversity

How new business realities affect individuals, groups, and organizations in the hospitality and tourism

industry. Changing perspectives on leadership, the promise and problems of teams, and the nature of influence and power. The social structure of competition and cooperation, alliances, joint ventures, culture and conflict, and negotiation. (3)

HOSM 445 Methods of Teaching Hospitality and Tourism Subjects

Scope of the hospitality and tourism industry and current industry-related instructional materials and program designs for instructors at the secondary and post-secondary levels. Process of developing secondary school programs, establishing post-secondary educational articulation agreements, and gaining financial support. Analysis of the economic, social, cultural, and environmental impact of hospitality and tourism on domestic and international economies. Current and future trends in the industry. (3)

HOSM 446 Organizing and Administering Cooperative Education Programs

Content required to organize and administer a workplace-based instructional program. Skills needed to plan, develop, implement, operate, and evaluate workplace learning at the skill development level. Methods related to workplace learning, school-based learning, and measurement of a student's performance. Student labor laws and a spectrum of workplace issues. (3)

HOSM 447 Hospitality Educator Practicum

Hands-on workplace experience; evaluation of employment skill standards in various segments of the industry; development of instructional resource material and analysis of the impact of hospitality and tourism in the US economy. (3)

HOSM 450 Graduate Seminar in Food and Beverage Service

Designed to open up fresh perspectives and develop new insights into topics which represent emerging and/or critical issues in food and beverage service. Contemporary issues and problems facing those with management-level responsibilities. (3)

HOSM 460 Graduate Seminar in Lodging

Designed to open up fresh perspectives and develop new insights into topics which represent emerging and/or critical issues in lodging. Contemporary issues and problems facing those with management-level

responsibilities. (3)

HOSM 470 Graduate Seminar in Meeting, Convention, and Exposition Management

Designed to open up fresh perspectives and develop new insights into topics which represent emerging and/or critical issues in meeting, convention, and exposition management. Contemporary issues and problems facing those with management-level responsibilities. (3)

HOSM 480 Special Topics in Hospitality and Tourism Management

Emerging issues of interest to students and the industry. (3)

HOSM 490 Research Thesis in Hospitality and Tourism Management

Capstone of the graduate program for students interested in teaching or pursuing a doctorate in hospitality and tourism management. Conducted under the sponsorship of a committee, the thesis is an empirical study that makes a contribution to the research literature on hospitality and tourism management. (3)

HOSM 495 Independent Study in Hospitality and Tourism Management

Individually selected topic researched under the supervision of a faculty member. (3)

HOSM 499 Master's Project in Hospitality and Tourism Management

Capstone of the graduate hospitality and tourism management program for students not pursuing a research and/or teaching career. Designed in consultation with a committee, the project represents original work by the student in applying management disciplines to the hospitality and tourism industry. (3)

Human Resource Management

HRM 400 Strategic Issues in Human Resources

Current management concepts enabling managers to make decisions based on accurate diagnosis of situations that involve human resource issues. The functions (employment, development, compensation, labor-management, diversity, and employment law) are all concurrent processes to be addressed in the special

context of human resource management function. (3)

HRM 405 Legal Issues in Human Resource Management

Major US laws and regulations affecting human resource management. Application of laws to human resource policies in organizations. (3)

HRM 420 Human Resources and Career Planning

See Trdrv 420. (3)

HRM 428 Workplace Diversity

See Trdrv 428. (3)

HRM 430 Employee Benefits

See Fnsv 430. (3)

HRM 432 Administering Labor/Management Relations

Collective bargaining, management planning for labor agreement, analysis of management/labor problems, contract alternatives, and management demands. Preparation for and conduct of negotiations, implementing new or revised agreements, contract administration, grievance administration, arbitration, and climate of labor/management relations. Prereq: Hrm 400. (3)

HRM 434 Employee Selection and Staffing

Governmental regulations affecting employment decisions. The role of federal, state, and local government related to "legal or illegal" HR department operations. Review of job analysis and job descriptions and the establishment of personnel planning and recruitment strategies. Employment tests, interview, and background investigations evaluated for efficacy and legality. Paradigm for making effective decisions consistent with organizational goals and objectives. Prereq: Hrm 400. (3)

HRM 438 Compensation Management

Theory and practice of compensation systems. Topics include financial and nonfinancial incentives, performance appraisal, audits of pay programs, piece rate setting, compensable worth, merit programs, and related policy determination. Institutional and governmental constraints on compensation decisions, internal equity, and individual equity. Pertinent legislation. Executive compensation, bonus systems, stock options, phantom stock awards, and other executive perquisites. Prereq: Hrm 400. (3)

HRM 493 Seminar in Human Resource Management

Capstone course for the MS in human resource management. Comprehensive summary of the major areas of managing human resources including progressive and innovative human resource practices found in leading companies. Prereq: Mgmt 407, Hrm 400, 434, 438. (3)

HRM 495 Independent Study in Human Resource Management

Intensive study of a human resource management topic under the direction of a management faculty member. The project is selected by the student with approval of the supervising faculty member and program chair. (1-3)

Information Systems Management

INFS 401 Information Resource Management

Information processing systems. Theories of data and information. Fundamental management, strategic, and organizational issues in the use of information systems. (3)

INFS 412 Database Systems

Logical database organization, analysis, and design. Alternatives for database organization in business environment. Database management with emphasis on security and responsibilities of database administrator. Survey of major database management software. Prereq: Infs 401. (3)

INFS 413 Seminar in Information Systems

In-depth study and analysis of a selected topic. Selection depends on recent developments and problems in the field as well as faculty interests and specializations. With prior approval, course may be taken for credit more than once with different topics. Contact MSIS program chair for current topic. Prereq: Infs 401. (3)

INFS 421 Accounting and Financial Information Systems

Systems development and systems applications within accounting and financial areas. Topics include security, control, information needs, decision requirements, processes, techniques, and data flows. Prereq: Infs 440 and Acct 405. (3)

INFS 430 Global Issues in Information Systems

Information systems and technology in global settings; the study of diverse cultures, business environments, and legal issues; transborder dataflow; information systems issues arising from conducting business globally. Prereq: Infs 401. (3)

INFS 440 Systems Analysis and Design

Structured analysis and logical design of business information systems. Techniques for stating and analyzing requirements. Logical design and specifications of system outputs, inputs, files, and processing. Procedures for system cost and benefit analysis. Life-cycle concept of information system development. Prereq: Infs 401. (3)

INFS 441 Systems Design and Implementation

Continuation of Infs 440. Proceeds from system logical design specification to program and physical system design. Topics include alternative system structures and alternative system evaluation. Design of program structures, subsystems, and user interfaces. System testing. Program implementation, conversion problems, evaluation of system, and management of information systems development. Prereq: Infs 440. (3)

INFS 451 Decision Support Systems

Role of information systems in assisting management decision making in all functional areas of organizations. Prereq: Mgmt 403, Infs 401. (3)

INFS 471 Management of Information Systems

Integrating information and communication alternatives to serve varieties of human behavior and business organizations. Business strategy including strategic considerations of computer-based information and decision support systems. Prereq: four information systems courses or consent of instructor. (3)

INFS 491 Special Topics

Content varies. (3)

INFS 495 Independent Study in Information Systems

Intensive study of a topic under the direction of an information systems faculty member. The project is selected by the student with approval of the supervising faculty member, program chair, and dean. (1-3)

Integrated Marketing Communications

Students from degree programs other than IMC and non-degree-seeking students are limited to three IMC courses. Consent of the IMC advisor is required before enrollment.

IMC 401 Marketing and Marketing Communications

The principles and practices of marketing in a broad sense and marketing communications within the context of marketing organizations. Communications applications in new product development, pricing theory, and distribution channel strategies. Includes a module on quantitative methods in marketing analysis and decision-making. (3)

IMC 409 Methods of Integrated Marketing Communications

The use of marketing communications concepts and processes to build stronger brand relationships. An idea-centric model for the integration of marketing and communication to deliver customer-focused solutions. The marketing communication methods of advertising, public relations, sales promotion, direct response, personal sales, events, sponsorships, and customer service. Prereq: Imc 401 or concurrent. (3)

IMC 419 Business-to-Business Marketing Communications

Overview of planning, strategy development, and communications techniques used by businesses marketing to other businesses. Targeting multiple buying influences; identifying objectives; creative considerations in marketing high-technology products. Prereq: Imc 401, 409, 446. (3)

IMC 440 Research in Marketing Communications

The importance of marketing information to the strategic decision-making process. Focus on research tools and techniques in marketing communications: product research, competitive analysis, audience and segmentation research, communications testing and media research. Emphasis on design, implementation, analysis and reporting of market research studies. Prereq: Imc 401, 409. (3)

IMC 443 Advertising Media

Applications in media planning for IMC. Media planning process from objectives and strategies to tactics,

budgeting, and plan execution. Media selling, media buying, and using syndicated media research. Prereq: Imc 401, 409, and 446. (3)

IMC 444 Newsletter Publishing

Audience research, budget planning, and production overview for print and online newsletters, whether they are journalistic entities, promotional arms of business, or adjuncts to organizations. Prereq: Imc 401, 409, and 446. (3)

IMC 445 Interactive Marketing Communications

The Internet as an interactive communications medium for marketers. Overview of web site design, message effectiveness, and measurement of program results. Product and service web sites in consumer and business-to-business markets. Development of a web site is required. Prereq: Imc 401, 409, 446. (3)

IMC 446 Creative Message Strategy

Examination and execution of creative communication strategies from market analysis and value propositions to brand attributes and target segmentation. Marketing communication messages from concept and copy platforms to written completion. Emphasis on identifying goals and objectives, trends and tactics, and working towards the "big idea." Prereq: Imc 401, 409. (3)

IMC 447 Visual Communications and Graphics

Overview of the visual arts in marketing communication. Fundamentals of brand identity and image, including print, broadcast, collateral, and web. Each student will be expected to demonstrate core competencies in creative decision-making in brand marketing. Prereq: Imc 401, 409, and 446. (3)

IMC 448 Writing for Newsletters

Skills course focused on information gathering and writing for newsletters. Prereq: Imc 401, 409, and 446. (3)

IMC 450 Principles of Direct Marketing

Development and management of direct marketing programs. Strategic business planning; development of the offer; merchandising selection; mailing lists and media selection; creating and producing direct marketing packages, catalogs, and print advertising. Establishing budgets, research and market testing. Prereq: Imc 401, 409, and 446. (3)

IMC 451 Database Marketing

Advanced analysis and development of database marketing to target and refine direct marketing programs. How these programs bring together financial services, consumer demographics, and television to lift response rates. Prereq: Imc 401, 409, 446, and 450. (3)

IMC 452 Ethics

Examination of manipulative techniques beyond appropriate persuasion related to IMC activities. Development and identification of marketplace attitudes on ethics; frameworks for decision making; case studies of marketing campaigns in business and politics; ethical issues emerging from new technologies applied in IMC. Prereq: Imc 401, 409. (3)

IMC 453 Multicultural Marketing Communications

Issues of globalism and domestic cultural diversity and their impact on IMC values. Focus on values, behaviors, and underlying assumptions related to verbal and visual communications strategies. Case studies of IMC campaigns directed towards culturally specific domestic and international audiences. Prereq: Imc 401, 409. (3)

IMC 455 Principles of Advertising Management

Principles and practices of advertising in an integrated marketing communications world. Focus on the business and the functions of advertising and advertising agencies; commercial production, agency account management, account planning, media planning and buying, creative management, media sales, and agency marketing. Study of successes and failures in the advertising business. Prereq: Imc 401, 409, and 446. (3)

IMC 471 Principles of Public Relations

Strategic functions and tactics of public relations. Models of creative thinking and problem-solving applied to the domains of public relations including media relations, community and member relations, investor relations, consumer relations, public affairs, and crisis communication. Skills in practical analysis and development of materials to generate reaction and support from targeted audiences. Prereq: Imc 401, 409, and 446. (3)

IMC 472 Principles of Consumer and Trade Promotions

Strategic approaches and tactical planning for applications in consumer and trade sales promotions. Business-to-business and business-to-consumer

promotions techniques, including price deals, sampling, event sponsorship and shows, sweepstakes and contests, product placements, and tie-in partnerships. Prereq: Imc 401, 409, 446, and 447. (3)

IMC 475 E-Commerce and Marketing Communications

Internet branding, selecting domain names, Web hosting, search engine strategies, market segmentation on the Internet, one-to-one marketing, customer relationship management, Internet marketing tools, successful products and services on the Web. Prereq: Imc 401, 409, 446, 447, and 489. (3)

IMC 480 The Integrated Marketing Communications Plan

Capstone course in which students develop a complete IMC plan on a specific product or service. Focus on each element of the plan, covering the full content of the core program. Instructor provides counsel to student teams. Prereq: Imc 401, 409, 440, 446, 447, 452, 453, or advisor's consent. (3)

IMC 489 Principles of New Media and Technology

Case studies expose the theory and practice behind current web, intranet, and interactive marketing strategies. All tools and techniques of this and other emerging technologies. Hands-on experience with computer applications. Internet and Intranet applications, fundamentals of web site design, and multimedia presentations. Prereq: Imc 401, 409, and 446. (3)

IMC 493 Practicum

On-the-job independent study for students employed full-time in marketing communications. Requirements include a paper that is either an assessment of the student's employment position or a report on a special communications project assigned by the student's employer. Prereq: completion of six required courses and consent of designated faculty supervisor. (3)

IMC 499 Internship

Advanced inservice training with a marketing or media organization. A minimum of 15 hours per week for 15 weeks or equivalent must be spent with the employer. Requirements include a written assessment of the internship experience. Prereq: completion of six required courses and consent of designated faculty supervisor. (3)

Interdisciplinary Studies

MIDS 400 Introduction to Interdisciplinary Research

Interdisciplinary research and problem-solving methods. Students learn to see familiar ideas from fresh perspectives, pursue research questions in global ways, and apply research methodologies and theories from a variety of academic fields. (3)

MIDS 490 Interdisciplinary Master's Thesis

Culminating project in MIDS program. Opportunity to synthesize ideas while thinking creatively in terms of the interconnectedness of several fields. (3)

MIDS 499 Interdisciplinary Master's Project

Culminating project in MIDS program. Opportunity to synthesize ideas while thinking creatively in terms of the interconnectedness of several fields. (3)

Jazz Studies

(See: Music: Jazz Studies)

Journalism

JOUR 401 News Fundamentals

Intensive preparation for students without previous journalism course work or training. Focus on mass media writing, reporting, and editing techniques; grammar, usage and Associated Press style. Class meets five hours weekly. Prereq: consent of director. (3)

JOUR 405 The State of the News Business

Current journalism trends and issues, including history, ethics and law; careers in journalism; criticism of the media; changing techniques, technology, audiences, and publishing strategies. May be taken concurrently with Jour 401. Prereq: consent of director. (3)

JOUR 410 History of Journalism

Development of journalism from European antecedents of the American colonial press through trends into the 21st century. Examination of US newspapers, magazines, radio, television, and other media. The nature of historical evidence and interpretation. Prereq:

Jour 405. (3)

JOUR 411 Advanced Reporting Methods

Use of statistics, census data, and original research in journalistic writing; emphasis on social science and computer research methodology and on advanced reporting techniques. Prereq: Jour 405. (3)

JOUR 421 Specialized Reporting

Guided individual reporting and writing project mutually agreed upon by student and instructor. Prereq: completion of four required courses and consent of advisor. (3)

JOUR 423 Television: Issues and Art

Television as a social force; controls exercised by regulatory agencies, station owners, and public; television as a popular art form, its history and program genres. Prereq: Jour 405. (3)

JOUR 425 Photography: From Chemical to Digital

Introduction to black and white photography and digital imaging. Theories and problems, basic camera and darkroom techniques, working with PhotoShop on Macintosh computers. Students provide cameras and some supplies. Lab fee. Prereq: Jour 405. (3)

JOUR 430 Reviewing the Contemporary Arts

Analysis and writing of book, theater, film, musical performance, dance, and visual arts reviews. Prereq: Jour 405. (3)

JOUR 431 Public Opinion and Propaganda

Factors in public opinion formation; techniques and uses of public opinion polling; definition, identification, and socially positive and negative uses of propaganda. Prereq: Jour 405. (3)

JOUR 432 Travel Writing

Tradition and practice of travel writing; works of significant travel writers; travel writing assignments. Prereq: Jour 405. (3)

JOUR 440 Publicity and Media Campaigns

Materials emanating from public relations departments or counseling firms; practical analysis and development of specialized communication materials

to gain reaction and support from specialized groups.

Prereq: Jour 405. (3)

JOUR 441 Public Relations Case Problems

Case studies and typical public relations problems in industry, labor, education, government, social welfare and trade associations. Planning and preparation of communications materials for various media; application of public relations techniques. Prereq: Jour 405. (3)

JOUR 442 Politics and Communication

How various political and social forces influence mass media in modern society; discussion of media ownership, concentration of control of media institutions, cultural and class bias, and government pressures.

Prereq: Jour 405. (3)

JOUR 445 Writing for Newsletters

Skills course focused on information gathering and writing for newsletters. Prereq: Jour 405. (3)

JOUR 446 Newsletter Publishing

Audience research, budget planning, and production overview for newsletters, both print and online, whether they are strictly journalistic entities, promotional arms of business, or adjuncts to organizations. Prereq: Jour 405. (3)

JOUR 452 Editorial and Column Writing

Writing of well-researched, logically argued editorials and columns expressing opinion of newspaper, other publication, or individual journalist. Prereq: Jour 405. (3)

JOUR 453 Alternative Media

Case studies of suburban, ethnic, and alternative media; emphasis on history, staffing, content, and production. Prereq: Jour 405. (3)

JOUR 454 Publication Design

Theories of design and practical experience with creating layout and using photos and art in newspapers, magazines, newsletters, online publications. Students use QuarkXPress software for hands-on layout exercises. Prereq: Jour 405. (3)

JOUR 455 Magazine Writing

Writing and researching of magazine articles. Prereq:

Jour 405. (3)

JOUR 457 Magazine Production

Research, writing, design, and production of magazines. Students use QuarkXPress software for publication design. Prereq: Jour 405. (3)

JOUR 461 Advanced Photography

Digital and chemical photographic practice and theory. Students shoot using artificial light, develop and print black and white photographs, and produce a substantial portfolio. Digital technologies such as Quick Time VR and the World Wide Web. Prereq: Jour 425 or consent of instructor. (3)

JOUR 463 Law and Ethics

Legal and ethical issues confronting communications professionals. Freedom of expression, access to meetings and public records, libel, commercial speech (including advertising), and telecommunications (including broadcasting). Fair and appropriate conduct for communications professionals. Prereq: Jour 405 or consent. (3)

JOUR 465 Writing for Trade Journals

Survey of trade journal field; writing and preparing articles for selected audiences. Prereq: Jour 405. (3)

JOUR 470 Media Criticism

Students use newspapers, magazines and the Internet in applying contemporary criticism to current media issues and performance. The role of visual communication in media and the social impact of mass media messages. Prereq: Jour 405. (3)

JOUR 474 Science Writing

Students write articles on topics ranging from genetic engineering to voice-activated computers. Prereq: Jour 405. (3)

JOUR 475 The Scholastic Press

Designed for high school newspaper advisors. Introduction to news writing, layout and design, photography and other elements of producing newspapers. Contact school director for course availability. Prereq: consent of director. (3)

JOUR 480 The Journalism Project

Capstone course; students develop a substantial project

in the area of career focus, working closely with a faculty advisor. Prereq: completion of all other required courses in the major. (3)

JOUR 489 New Media and Technology

Current trends and new forms of media and technology and their potential effects; focus on the World Wide Web, interactive media, online services, digital photography, and other current topics. Hands-on experience with computer applications, web site design and multimedia presentations. Prereq: Jour 405. (3)

JOUR 492 Practicum in the Teaching of Journalism

The teaching of writing and other skills related to journalism, such as reporting, layout and design, and photography. Contact school director for course availability. Prereq: consent of director. (3)

JOUR 493 Practicum

Designed for students who cannot complete traditional internships. Prereq: completion of four required courses and consent of instructor. (3)

JOUR 495 Independent Study

Guided individual research on topic mutually agreed upon by student and journalism instructor. Prereq: completion of four required courses and consent of advisor. (3)

JOUR 499 Internship

Advanced inservice training with professional publication, broadcast station, public relations or advertising agency. Minimum of 15 hours per week for 15 weeks or the equivalent must be spent with employer. Prereq: completion of four required courses and instructor's consent. (3)

Language and Literacy

(See: Education: Language and Literacy)

Lawyer's Assistant Program

LAWA L01 Ethics and Professionalism

Regulation of the legal profession including the rules of conduct that govern legal assistants. Topics include the meaning and importance of the unauthorized practice

of law; attorney-client privilege and related work product doctrine; doctrine of confidentiality; conflicts of interest. Law office management; conflicts of interest check system; law office calendar; billing procedures; fee arrangements; client trust accounts; filing systems; and documenting the file. Preparation of client manual, letters to clients, and law office memoranda. (3)

LAWA L02 Legal Research

Research tools of the law library; proper citation to the various legal authorities. Tort, contract, and general litigation; legal reasoning; legal argumentation. Online research using both computerized legal databases and the Internet. Significant in-class time in the law library and in the computer lab with the instructor. (3)

LAWA L03 Civil Law

Torts, property, wills and trusts, domestic relations, intellectual property, and employment. Current legal events. Case briefs and other written exercises/analyses. (3)

LAWA L04 Pre-Trial Litigation

The pre-trial litigation process in civil matters. Client and witness interviews; factual investigations; jurisdiction; pre-trial motions; litigation strategy; administrative remedies and procedures; evidence for use at trial; depositions; written discovery; and review of documentation. Federal and Illinois Rules of Civil Procedure and local court rules. (3)

LAWA L05 Commercial Law

Law of contracts; law of business organizations; commerce clause; business ethics; bankruptcy law; the law of agency; and antitrust and securities law. (3)

LAWA L06 Trial and Post-Trial Litigation

Law of Evidence; preparation of a case for trial; the trial process; and post-trial issues; exhibits, subpoenaing and contacting witnesses; preparing witnesses for testimony; trial briefs; motions to exclude evidence; and jury instructions. Taking notes at trial. Post-trial procedures including motions and enforcement of a judgment. (3)

LAWA L09A Real Estate

Residential and commercial real estate transactions and issues. Various estates in real property, including freehold estates, easements, and licenses; various methods of holding title to property; types of transfer

deeds; surveys, plats, and subdivision maps. Legal descriptions of property; closing documentation; and title search. Emphasis on the practical study of real estate law and transactions. (3)

LAWA L19A Intellectual Property

Federal law regulating copyrights, trademarks, and patents; state law regulating trade secrets. Practical skill assignments, including the registration of a copyright, preparation of agreements used to protect trade secrets, and the selection, evaluation, and registration of a trademark. In-depth coverage of current laws of intellectual property and processes of protecting intellectual property rights. (3)

LAWA L23 Estates, Trusts, and Wills

Practical aspects of estate planning and estate administration; legal principles involved in estate work. Preparation of documents incident to an estate practice. Advantages and disadvantages of estate forms and which forms are best under specific circumstances. (3)

LAWA L25 Legal Writing

Grammar basics and the Uniform System of Citation. Written assignments ranging from simple case briefs and business letters to a complex research memorandum that integrates research, analysis, and writing skills. Students draft legal documents during class and as outside homework assignments. Significant feedback from the instructor. (3)

LAWA L26 Criminal Law

Overview of the criminal justice process in the United States. Investigation of a crime, arrest, charging offenses, arraignment, and the pre-trial and trial process. Definition of criminal offenses, the parties to a crime, and responsibility for crime. Issues regarding criminal procedure, including privilege against self-incrimination, Miranda admonitions, sixth amendment right to counsel, and double jeopardy. Study of actual court cases. (3)

LAWA L27 Business Organizations

Basics of corporate practice and various aspects of corporate and securities law; focus on the practical side of the law. Students prepare appropriate forms relating to various types of business entities: sole proprietorships, limited and general partnerships, subchapter "S" corporations, limited liability corporations, and public

and privately held corporations. (3)

LAWA L30 Paralegal Internship

An opportunity to gain practical work experience under the supervision of an attorney in day-to-day, on-site paralegal work. Student intern will meet with LAP Internship Coordinator during the semester to discuss progress. The student intern will submit a self-evaluation report on his/her experiences during the internship. (3)

Management

MGMT 403 Quantitative Analysis for Decision Makers

Important and widely used quantitative techniques for making business decisions. Focus on the limitations, assumptions, applicability, and interpretation of quantitative techniques. Emphasis on using and interpreting computer software for quantitative analysis. Topics include data analysis, probability, decision theory, process control, regression, statistical inference, linear programming, and others. (3)

MGMT 407 Executive Leadership

Principles of organization required for successful management and the ability to lead subordinates. Topics include employee motivation, leadership theories, ethics, decision making, conflict management, group dynamics, power and politics, and organization culture. (3)

MGMT 421 Operations Management

Managerial issues in operations including management of technology, operations strategy for both manufacturing and service industries, and management for quality. Case studies. Prereq: Mgmt 403. (3)

MGMT 423 Behavioral Science Systems for Management

Current concepts in behavioral science applied to human relations in business organizations. Employee needs and job characteristics, methods of motivation, job enlargement and enrichment, goal-oriented management, effect of systems approach to management of employee and organization structure, administration of employee and executive development programs. Prereq: Mgmt 407. (3)

MGMT 445 Business Forecasting

Survey of business forecasting methods for managerial planning and decision making. Emphasis on computer and statistical models. Current forecasting tools and practices; emphasis on regression analysis. Prereq: Mgmt 403. (3)

MGMT 452 International Business: Environmental Analysis

International business environments inside and outside firms operating in several nations. Analysis of international economic, political, and cultural forces as they relate to marketing, financial, and manpower functions. (3)

MGMT 453 International Management and Leadership

The role that national culture plays in managing people and developing managerial systems at the multinational and global level. How different national/regional cultures affect issues such as employee motivation, teams and group dynamics, leadership, negotiation and conflict resolution, communication patterns, and approaches to organizational change. Prereq: Mgmt 407. (3)

MGMT 454 International Consulting

Participation in a small team consisting of RU students and students from a foreign university who will work together on an international consulting project. RU students will travel abroad and work with fellow team members to solve an actual business problem for a firm. After analyzing the firm's problem, the team will develop and present proposed solutions to the firm's senior executives. MSIB students may satisfy their international experience requirement by completing Mgmt 454. Prereq: consent of program chair. (3)

MGMT 455 Global Business Simulation

Teams of students develop plans and implement them in a computer-simulated business environment to achieve a given set of objectives representative of stakeholder value. Each team develops and implements its interpretation of the value-creating and control processes and the manner by which they need to be managed to achieve the objectives set for their organization. The essential review process through which the outcomes are evaluated against the objectives and the learning for future action is noted. Prereq: Mktg 406 and Fin 403. (3)

MGMT 460 Team Building and Leadership Skills

See Trdv 423. (3)

MGMT 462 Managing Organizational Change

See Trdv 433. (3)

MGMT 465 Organization Theory

The relationship between organizational design, structure, and environment. How environmental turbulence, changes in strategy and technology, and organizational maturity affect the internal functioning and structure of the contemporary organization. Prereq: Mgmt 407. (3)

MGMT 470 Organization Change and Development

Managerial and strategic issues involved with implementing innovation and change in contemporary business organizations. The entire change process from problem diagnosis and needs assessment through evaluation. Models of change and techniques for change at the individual, departmental, and organizational levels; managing resistance to change. Prereq: Mgmt 407. (3)

MGMT 489 Strategic Management

Strategy in the context of a total enterprise from the standpoint of top management. Decision making based on studies of accounting, finance, marketing, management and human resource management. Students will determine organizational mission and objectives, analyze the company and the industry, and balance the tensions between strategy and social responsibility, strategy and competitive advantage, and strategy and various forms of diversification. Prereq: Fin 408, Inf 401, Mktg 406, and Mgmt 407. (3)

MGMT 491 Special Topics

Content varies. (3)

MGMT 492 Internship

Supervised learning experience at a business site. Prereq: consent of school director. (1-3)

MGMT 495 Independent Study in Management

Intensive study of a management topic under the direction of a management faculty member. Project is selected by the student with approval of the supervisor.

ing faculty member, department chair, and dean. (1-3)

Marketing

MKTG 406 Marketing Strategies: Theory and Practice

Foundation for understanding all basic concepts of marketing; organized on a managerial framework so that students can apply basic marketing concepts to decision making and managing marketing activities. Emphasis on practical application through the use of cases. Development of a conceptual marketing plan, given a specific set of market, product and environmental conditions. (3)

MKTG 425 Communication and Consumer Behavior

Internal and external forces influencing consumers' decision making. Current theories of consumer market behavior and marketing communication techniques. Prereq: Mktg 406. (3)

MKTG 426 Research for Marketing Decisions

Role of marketing research in contemporary marketing strategies. Relevant secondary information sources and techniques, such as focus groups. Experimental and other study designs; questionnaire development; data collection, processing, and analysis. Appropriate statistical techniques for data analysis. Prereq: Mktg 406. (3)

MKTG 440 Marketing for New Ventures

Applied course in entrepreneurship. Selection and evaluation of a specific business concept; research into industry trends, competition, and the target market; marketing strategies. The completed business plan is presented in written and oral forms. Prereq: Mktg 406, Fin 408. (3)

MKTG 456 International Marketing Analysis

Extended case study of international marketing planning. Subtopics include overseas market selection, international aspects of demand analysis, product adaptation, channel selection, pricing behavior, promotion strategy, and organization. Export-import transactions, including transportation and logistics. Prereq: Mktg 406 or Mgmt 452. (3)

MKTG 495 Independent Study in Marketing

Intensive study of a marketing topic under the direction of a marketing faculty member. Project is selected by the student with approval of the supervising faculty member, school director, and dean. (1-3)

Mathematics

MATH 407 Chaos and Fractals

Introduction to discrete and continuous dynamical systems; stability; chaotic behavior; fractals and fractal measures. Prereq: Math 233 and 300; Math 307 recommended. (3)

MATH 410 Formal Languages and Automata

Finite automata and regular languages; push-down automata and context-free languages. Turing machines, linear-bounded automata, and context sensitive languages. See also Cst 410. Prereq: Cst 280. (3)

MATH 416 History of Mathematics

Evolution of mathematical ideas; major developments; problem solving, algorithms, and theoretical framework. Prereq: Math 231. (3)

MATH 417 Geometry

Comparative study of modern postulates, invariants, and implications of Euclidean, projective, and non-Euclidean geometries. Prereq: Math 231 or 245. (3)

MATH 418 Number Theory

Study of integers. Division and Euclidean algorithms, prime numbers, unique factorization; Diophantine equations; congruences; Fermat's and Euler's theorems; quadratic reciprocity. Prereq: Math 231 or Math 245. (3)

MATH 420 Introduction to Modern Algebra

Elementary properties of groups, rings, integral domains, and fields; symmetry; factorization of integers and polynomials; construction of quotient field of an integral domain. Prereq: Math 300. (3)

MATH 428 Linear Programming and Optimization

Models of optimization with linear constraints and objectives; simplex method and related algorithms; duality and sensitivity; transportation and assignment problems; games and network flows. See also Cst 428. Prereq: Math 300 and one programming course. (3)

MATH 430 Numerical Analysis

Solution of equations by iteration; interpolation; numerical differentiation and integration; numerical solutions to linear systems. Computer use course. See also Cst 330. Prereq: Math 232, Math 300, and one programming course. (3)

MATH 432 Operations Research

Stochastic methods in operations research. Queuing theory; Markov processes; decision analysis; simulation; stochastic dynamic programming. Prereq: Math 231 and 217, or Math 447. (3)

MATH 435 Topics in Applied Mathematics

Linear eigenvalue and boundary value problems; Fourier series and integrals; Laplace transforms. Prereq: Math 300, 307. (3)

MATH 445 Combinatorics

Permutations and combinations; identities involving binomial coefficients; inclusion-exclusion principle; recurrence relations; generating functions; introduction to theory of graphs. Prereq: Math 232 and 245. (3)

MATH 446 Stochastic Processes

Poisson and renewal processes. Markov chains with applications to queuing theory, inventory control, and population growth. Prereq: Math 447. (3)

MATH 447 Probability and Statistics I

Probability models; random variables; probability distributions; expectation and moment generating functions of random variables; multivariate distributions. Prereq: Math 233 or concurrent. (3)

MATH 448 Probability and Statistics II

Continuation of Math 447. Distributions of functions of random variables, sampling distributions; Central Limit Theorem; point estimators and confidence intervals; hypothesis testing; linear models. Prereq: Math 447. (3)

MATH 449 Regression and Time Series

Simple and multiple linear regression models; time series analysis; applications to forecasting. Use of a statistical computer package; no previous experience with computers required. Prereq: Math 231 and 238, or 448. (3)

MATH 450 Boolean Algebra and Switching Theory

Logic gates and Boolean algebras. Minimization of switching functions, and Karnaugh maps. Introduction to logic circuits, flip-flops, counters and registers. Digital arithmetic. Prereq: Cst 250, Math 245, and Math 231. (3)

MATH 455 Introduction to Analytic Functions

Elementary functions of a complex variable, complex differentiation and integration, Cauchy-Goursat theorem, Taylor and Laurent series, singularities and residues, conformal mapping. Prereq: Math 352. (3)

MATH 457 ANOVA and Experimental Design

One-way analysis of variance (ANOVA), multiple comparison methods, basic experimental designs, analysis of covariance (ANCOVA), factorial treatment structures, split plots, confounding and fractional replication in 2^{11} factorial systems. Prereq: Math 217 or 238 or 448, or Econ 234, or Psyc 407. (3)

MATH 458 Theory of Integration

The Lebesgue integral and its relation to the Riemann integral, convergence theorems, elements of measure theory. Prereq: Math 300, 352. (3)

MATH 469 Actuarial Mathematics I

Survival distributions and life tables; life insurance; life annuities. Prereq: Math 269 or concurrent and Math 448. (3)

MATH 470 Actuarial Mathematics II

Benefit premiums; benefit reserves; multiple life functions; multiple decrement models. Prereq: Math 469. (3)

MATH 471 Topology

Set theory and metric spaces; topological spaces and continuity; separation, compactness, and connectedness. Prereq: Math 300, 352. (3)

MATH 477 Survival Models

Survival data, survival functions, hazard functions, life tables, comparing two groups of survival data, parametric models of survival data, and sample size for survival studies. Prereq: Math 448 or concurrent. (3)

MATH 478 Topics in Actuarial Mathematics

Course content varies. Topics in actuarial models and actuarial modeling. May be repeated for credit for up to six semester hours. Prereq: varies according to the content. Specific prerequisites listed in the Class Schedule. (3)

MATH 489 Special Topics

Course content varies. May be repeated for up to nine semester hours. Prereq: varies according to the content. Specific prerequisites listed in Class Schedule. (3)

MATH 490 Thesis

Prereq: consent of graduate committee. (3)

MATH 495 Independent Study

Prereq: consent of instructor. (3)

Music: Applied

Applied music courses are listed on the last page of the section on the Chicago College of Performing Arts.

Music: Ensemble

ENS 401 Choral Ensemble

Performance of major choral works. Prereq: departmental approval. (1)

ENS 402 University Orchestra

Performance of major works for symphony and/or chamber orchestra. Prereq: departmental approval. (1)

ENS 403 Wind Ensemble

Performance of major works for wind ensemble. Prereq: departmental approval. (1)

ENS 404 Jazz Orchestra

Performance of arrangements in all jazz styles for 9-17 players, including a complete rhythm section. Prereq: departmental approval. (1)

ENS 405 Jazz Combo

Performance of arrangements in all jazz styles for 5-9 players, including a complete rhythm section. Prereq: departmental approval. (1)

ENS 406 Vocal Jazz Ensemble

Performance of arrangements in all jazz styles for 8-16 singers. Prereq: departmental approval. (1)

ENS 407 Chamber Music Ensemble

Study and performance of representative literature for 3-10 players. Prereq: departmental approval. (1)

ENS 408 Collegium Musicum

Study and performance of pre-classical repertoire. Prereq: departmental approval. (1)

ENS 409 Classical Guitar Ensemble

Study and performance of literature for guitar duo, trio, and quartet. Prereq: departmental approval. (1)

ENS 410 New Music Ensemble

Study and performance of contemporary chamber music, written and/or improvised. (1)

Music: History and Literature

MUHL 388 Music History Overview

Intensive course covering development of music in the Western world. No credit toward MM degree. Required of students not sufficiently prepared for graduate study (1)

MUHL 420 Music in the Middle Ages

Western music from time of Pope Gregory through late 14th century; music of the church (plain chant); secular monodic music; beginning and first flowering of polyphonic music with emphasis on French music from Leonin to Machaut. (3)

MUHL 423 Music in the Renaissance

Styles and techniques of representative works of 15th and 16th centuries. (3)

MUHL 425 Music in the Baroque Era

Musical styles and theoretical concepts of 17th and early 18th centuries. (3)

MUHL 428 Music in the Classic Era

Styles and forms of Classic period in music, especially Haydn, Mozart, and Beethoven. Analysis of important and representative works. (3)

MUHL 429 Music in the Romantic Era

Origins and development of musical Romanticism in its stylistic and social phases. Analysis of important and representative works. (3)

MUHL 430 Music in the 20th Century

Survey and analysis of the various stylistic trends that have emerged during the 20th century. (3)

MUHL 431 Seminar in Musicology and Music Theory

Discussion and research projects concerning problems of aesthetics, style, history, and theory. (3)

MUHL 432 Topics in Art Song Literature

Survey and style analysis of solo song literature. Topic varies by semester; course may be repeated for credit. (2)

MUHL 434 Keyboard Literature

Survey of literature for stringed keyboard instruments; emphasis on music for pianoforte, 1700 to present. (3)

MUHL 436 Introduction to Musicology

The techniques and resources of musicological research. Examination of reference works, periodicals, editions of music, textbooks, and other musicological works; exploration of contemporary issues in musicology. (3)

MUHL 437 Orchestral Literature I

Stylistic and structural survey of symphonies, concertos, suites, overtures, and other orchestral works from circa 1730 to 1900. (3)

MUHL 438 Orchestral Literature II

Stylistic and structural survey of symphonies, suites, concertos, overtures, ballet music, and other orchestral works from circa 1900 to the present, including electroacoustic and/or improvisatory compositions and chamber orchestra works. (3)

MUHL 444 Guitar Literature

Survey and style analysis of chamber music literature since the Renaissance. Topic varies by semester; course may be repeated for credit. (3)

MUHL 445 History of Opera

Development of opera from its inception to the present. Concentration on major works in each era. (3)

MUHL 466 World Music

Folk and traditional music. NonWestern classical

music. Music in its cultural contexts: religion, society, history. (3)

MUHL 490 Thesis

Preparation of individual research project under departmental guidance. (2)

MUHL 495 Independent Study

Individual research under departmental guidance on problems of specific interest to student. (1-3)

Music: Jazz Studies

JAZZ 400 Counterpoint

Linear counterpoint as used in jazz idiom by such composers as Bill Holman and John Lewis. Analysis and stylistic composition projects. (2)

JAZZ 401, 402 Concepts in Linear Improvisation

Advanced techniques and concepts for playing in the jazz style. (2)

JAZZ 405 Style and Analysis

Stylistic analysis of significant works and innovations of major artists from around 1900 to present including free jazz and fusion. (3)

JAZZ 460 Jazz Pedagogy

Examination of available textbooks, methods and other training materials, and representative curricula; rehearsal techniques; conducting frames and related techniques; programming; concert production. Development of a comprehensive jazz curriculum. (2)

JAZZ 475 History and Literature

Survey and style analysis of jazz literature. Topic varies by semester. (3)

Music: Pedagogy

MPE 410 Theories of Learning Applied to Music

Complex nature of learning process in music; measurement of musical learning and learning abilities; factors involved in learning and retaining musical responses; current theories on perception, cognitive process, motivation, musical aptitude, and musical achievement. (3)

MPE 459 Introduction to Vocal Pedagogy

Physical processes in voice production: stance and posture, respiration, phonation, resonance, and articulation. Psychological and acoustical considerations; diagnostic and corrective procedures; group and individual instruction in establishing basic techniques. Observation of demonstration lessons given by voice faculty. (2)

MPE 460 Practicum in Applied Vocal Pedagogy

Experience in individual and group instruction for establishing basic techniques. Student assists in group voice classes under guidance of faculty member. Student also assigned several subjects from group voice classes for individual instruction under periodic supervision. (3)

MPE 461 Advanced Vocal Pedagogy

Intensive analytical and comparative study of systems used in teaching voice from beginnings of opera to present. Choice of song literature and role of interpretation as ultimate teaching technique. Observation of demonstration lessons given by members of voice faculty. Visit to major medical center to gain firsthand knowledge of voice physiology. (3)

Music: Performance

PERF 401-403 Advanced Study and Performance of Orchestral Excerpts

For orchestral studies majors at the master's level. Intensive study of technically and musically demanding orchestral excerpts with emphasis on preparation for professional auditions. Prereq: consent of department. (2)

PERF 405 Orchestral Audition Workshop

For orchestral studies majors at the master's and diploma levels. Performance of required repertoire for a jury of faculty in a formal audition setting. Preparation for final audition in workshops and master classes throughout the semester. Audition repertoire consists of one solo piece of the student's choice (concerto or sonata movement, etc.), selections from required excerpts, and sight reading. May be taken concurrently with Perf 401-403. (2)

PERF 408 Graduate Seminar: Comprehensive Review

Summary and synthesis of major historical, analytical, and stylistic studies for performance and perfor-

mance/pedagogy majors. Related trends and concepts in dance, drama, and the visual arts. Includes a series of oral presentations consisting of structural, stylistic, and historical analyses of major works from the student's repertoire. Prereq: Applied Music 420 or concurrent. (2)

PERF 410 Orchestral Seminar

Preparation for a career as an orchestral musician. Issues may include ethics of professional life; organizational governance and committee structures; contracts; self-promotion and professional management; physical and psychological aspects of injury prevention; commercial music opportunities; principles of orchestral and chamber music performance. (1)

PERF 411-414 Advanced Study and Performance of Orchestral Excerpts

For orchestral studies majors at the diploma level. Intensive study of technically and musically demanding orchestral excerpts with emphasis on preparation for the highest tier of professional auditions. Prereq: consent of department. (2)

PERF 418 Solo Performance

For diploma-level students. Public performance in a recital setting. Program may consist entirely of solo literature or may be a combination of solo and chamber works. Prereq: consent of department. (2)

PERF 419 Introduction to Harpsichord Technique, Literature, and Style

Fundamentals of harpsichord playing for advanced pianists. Technical issues, registration, ornamentation, improvisation, and other specific topics. Survey of literature and genres. (2)

PERF 426 Opera, Operetta, and Musical Theatre Workshop

Formal character study and interpretation. Staging of scenes or complete works, culminating in a public performance each semester. Prereq: departmental approval. (1)

PERF 481 Vocal Coaching

Individual work on selected advanced solo literature in a master class setting. (4)

Music: Theory and Composition

MUTC 389 Music Theory Overview

Intensive course covering the principles of basic theory, contrapuntal manipulations and their relationship to musical form. No credit toward MM degree. Required of students not sufficiently prepared for graduate study. (1)

MUTC 407 Advanced Orchestration

Scoring for various ensembles with emphasis on larger groups and orchestral writing. Study of representative traditional and contemporary scores, presentations, and arrangement projects. (3)

MUTC 408 16th-Century Vocal Polyphony

Study of contrapuntal practice based on the sacred music of Palestrina and other later 16th-century composers. Emphasis on practical exercises. (3)

MUTC 410 Schenkerian Analysis

Study of the reductive analytic technique of Heinrich Schenker and its application to tonal music of the 18th and 19th centuries through primary and secondary sources and independent and directed analysis. Significant critiques of the method; application to pre- and post-tonal music; the relevance of reductive analysis to performance. (3)

MUTC 419 Pedagogy of Theory

Methods of teaching written harmony, ear training, and other phases of music theory. Preparation of detailed syllabus for two-year core course in basic theory. (3)

MUTC 427 Analytical Studies in 20th-Century Music

Intensive analysis of serial and other post-tonal works and study of specialized methods developed for this purpose. (3)

MUTC 431 Seminar in Musicology and Music Theory

Discussion and research projects concerning problems of aesthetics, style, history, and theory. (3)

MUTC 441-444 Graduate Composition

Creative work in larger forms; may be directed toward electroacoustic composition. Prereq: consent of instructor. (2-4)

MUTC 490 Thesis

Preparation of composition in large form or research project under departmental guidance. (2)

MUTC 495 Independent Study

Individual research under departmental guidance on problems of specific interest to student. (1-3)

Pedagogy

(See: Music: Pedagogy)

Performance

(See: Music: Performance)

Political Science

POS 402 Problems of United States Foreign Policy

Examination of US government organization for conduct of foreign policy. Case studies of military, economic, and political foreign affairs. (3)

POS 403 Democracy and Democratization

Theoretical perspective on democracy; the difficult process of transition to democracy from some other form of government. Focus on those nations of Eastern Europe, Asia, Africa, and Latin America that have most recently experienced (or are experiencing) democratization. (3)

POS 404 Great Power Politics

Survey of contemporary political relations between the world's leading powers, focusing on the interplay between economic and security issues and the possibilities of cooperation. (3)

POS 405 Imperialism

Theories of imperialism from Hobson, Lenin, and Luxemburg to contemporary authors; examination of capitalist world economy since 1815. Specific case studies of relations between industrialized nations and Third World today. (3)

POS 408 Seminar in Comparative Politics and International Relations

Close reading of major texts in comparative and international politics. Emphasis on the interaction between domestic and global political forces. (3)

POS 410 Latin America in International Relations

Basic historical background, concepts, and debates in the evolution of Latin American foreign relations, especially in relation to the US. Importance of inter-American relations. Special attention to current efforts of Latin American countries to expand their economic ties with countries within and outside the region. (3)

POS 411 Regional Diplomacy

Political dynamics of four regions of the globe drawing upon presentations made by representatives of eight foreign consulates located in Chicago. (3)

POS 414 Globalization, Society, and Culture

Social, economic, political, and cultural systems that span nation-state borders. Current status of nationalism, nation-states, and the global economy; how cultural identities and communities are formed within the context of global systems. Topics may include effects of world markets on economies and societies, transnational migration and social movements, indigenous groups' self-representation through global technologies such as video and the Internet, hybrid identities and "bifocal" cultural frameworks. See Anth/Soc 414. (3)

POS 417 Mexican Politics and Government

Political behavior in Mexico. The evolution of culture in Mexico. History, geography, values, ethnicity religion, and internal and external relations. How the social, political, and economic differences between the US and Mexico affect the relationship between these two neighboring countries. (3)

POS 421 The Politics of Lesbian and Gay Communities in the United States

Historical development and impact of the lesbian, gay, bisexual, transgender, and queer movement in the US from WWII to the present; issues, debates, and organizing that constitute the LGBTQ movement today; the place of sexuality and how it intersects with class, gender, and racial dynamics in contemporary US culture and politics. (3)

POS 427 Sexuality, Gender, and International Human Rights

Contemporary issues of gender and sexuality in international law and politics. Topics include the distinction between "women's rights" and "men's rights," the question of whether gender differences exist with respect to political involvement, and the definition of public versus private with respect to issues such as prostitution and reproductive rights. (3)

POS 430 Seminar in Political Theory

Intensive reading and writing on selected topics in political theory. Attention to the relationship between philosophical and theoretical issues and empirical political research. (3)

POS 431 Seminar in Scope and Methodology

Critical examinations of alternative modes of examining political phenomena. Naturalistic, interpretative, and critical approaches to political inquiry. Relationship between political theory and political practice in these alternative modes of investigation. (3)

POS 439 Political Violence and Terrorism

Definition of terrorism; distinction between terrorism and revolutionary warfare; the evolving nature of the threat including the potential use of weapons of mass destruction and cyberterrorism; theoretical writings. Focus on the history and current status of terrorism and political violence in the US. The trade-offs between civil liberties and security. (3)

POS 440 The United States Presidency

Contemporary and historical perspectives on the presidency including elements of presidential power, presidential selection, politics of the presidency, presidential personality, president and the media, and relations of president with courts, Congress, and bureaucracy. (3)

POS 441 Gender, Law, and Politics

Liberal and radical feminist ideas in the areas of politics and law compared, contrasted, and applied to a critical exploration of modern society. (3)

POS 446 Theories of World Politics

Competing explanations of the most important issues in world politics including the causes of war and the

prerequisites and limits of international cooperation. (3)

POS 447 The History of the Vietnamese War, 1946 to 1975

Roots of Vietnamese Revolution; struggle between French and Viet Minh, and US-Vietnamese war; emphasis on international and domestic consequences. (3)

POS 453 Cyberpolitics

Impact of the Internet on politics in the US. How the Internet has affected the political players that dominated pre-Internet politics; where and how Americans fit in the information age; the possibility of the US moving toward direct democracy. Students will also be introduced to "netactivism" and develop their own Web sites to increase public awareness concerning an issue. (3)

POS 456 Elections Around the World

Growing usage of and radical changes in elections throughout the world. Electoral laws; campaign strategies and tactics; media communications; and voter turnout. Two-thirds of the course devoted to studying elections outside the US. (3)

POS 457 Global Environmental Politics

The state of the natural environment and the status of international efforts to address common environmental problems. The record of global environmental cooperation and prospects for global governance. (3)

POS 462 Urban Politics

Historical development of political economy in major cities; political institutions and participation; changing conceptions of urban crisis; contemporary issues, especially economic development; community power. (3)

463 Urban Policy

Policies and policy-making processes at all levels of government that shape quality of life in metropolitan areas; relationship between political and market processes; class, gender, racial, and regional consequences of different policies. (3)

POS 466 Local Government Law

Legal issues relating to governmental structure,

intergovernmental relations, governmental service provision, and citizen participation in government decision making. Important issues and key concepts within the area of local government law. Impact that legal structures have on the administration of local government. Prereq: Padm 400. (3)

POS 467 Social Movements

Central analytical problems in the study of social movements in general; dynamics and significance of social movements in contemporary US politics and society. (3)

POS 470 Seminar in American Politics

In-depth analysis of some aspect of contemporary American politics such as the implications of divided government or the relationship between political appointees and the permanent bureaucracy. Each student prepares and presents a major research paper. (3)

POS 472 Public Policy and Implementation

Interaction of policy making and implementation. Study of selected issues in public policy. Impact of politics on administration. Tension between bureaucracy and democracy. (3)

POS 480 International Law: Human Rights

Theoretical and institutional basis for a modern understanding of human rights and liberties. Philosophical justifications for a concept of human rights within the context of the idea and practice of international law as a whole. (3)

POS 487 International Law: Organization

Rules and principles that guide relations among nations and between governments and foreign nationals. Survey of various formal arrangements transcending national boundaries that facilitate cooperation among member states in security, economic, social, or other spheres of common concern. (3)

POS 488 War and Peace

Analysis of the continuing utility of military force in the contemporary international arena and alternative approaches to conflict resolution. (3)

POS 489 International Political Economy

Analysis of political impact on international trade,

finance, and natural resources; decline in US hegemony vis-a-vis other industrialized states; conflict between First and Third World economies. (3)

POS 490 Thesis

Required of all students choosing the thesis option. (3)

POS 495 Independent Study

May not be counted for more than six semester hours toward the MA degree; may not be substituted for required core courses. In exceptional cases it may be substituted for a course listed in the graduate catalog. (3)

Psychology

Courses in psychology open to MA graduate students only. Students must obtain written permission from the MA advisor before enrolling in any 400-level course.

PSYC 407 Intermediate Statistics

Analysis of variance and factorial designs; bivariate and multiple correlation and regression; testing of hypothesis using other statistical tests, including nonparametric tests; introduction to computer applications in psychological research. Prereq: Psyc 200, 285, or consent of instructor. (3)

PSYC 410 Biological Psychology

Physiological bases for behavior including structure and function of human nervous system, sensation, motivation, and memory. (3)

PSYC 413 Wage and Salary Administration

Relationship of job evaluation, job classification, merit rating systems, seniority systems, and salary surveys to wage and salary administration; examination of all forms of compensation, including wage rates, salary structure, incentive systems, bonus plans, profit sharing, stock options, and fringe benefits. (3)

PSYC 416 Learning

Research and theory on the acquisition, retention, and loss of acquired responses; memory and information processing. (3)

PSYC 426 Cognitive Processes

Theory and research on cognitive processes and their interrelationships with other psychological functions, especially learning. (3)

PSYC 436 Sensation and Perception

Sensory neuropsychology; complex cognitive nature of perception in the processing of visual and auditory information. (3)

PSYC 439 Adult Development

Development from post-adolescence through middle age; biological, psychological, and cultural aspects; new life styles of young adults, changing work world, and options for women and men at middle age. (3)

PSYC 441 Psychology of Aging

Psychological dynamics from post-middle age until death. Research and theory of such experiences as retirement, physical disabilities, loss of loved ones, constriction of options. (3)

PSYC 442 Theories of Personality

Organized nature of personality from psychodynamic, humanistic/existential, behavioral, and cognitive points of view; biological and cultural determinants of personality; overview of personality research. (3)

PSYC 443 Motivation

Experimental and clinical research and theory on nature of human motivation. (3)

PSYC 444 Industrial/Organizational Psychology

Psychological principles and theories of organizations. Influence of organizational structure and management practices on individual and group work behavior, social interaction and conflict, and interaction of these effects with nonwork environments. (3)

PSYC 445 Psychology of Women

Psychological development of women viewed from social, cultural, and biological perspectives. (3)

PSYC 446 Psychology of Fads, Frauds, and Fallacies

Comparison of science and pseudoscience; critical examination of claimed psychological phenomena, methods, systems, and movements that have emerged

outside of traditional psychological science. (3)

PSYC 447 Health Psychology

Relationship between psychology, health, stress, and illness. Influence of affective, cognitive, and social factors on risk, severity, and recovery from illness; impact of illness on psychological status; influence of psychological factors on health maintenance behaviors; psychological interventions; and the role of the psychologist in the health care team. (3)

PSYC 473 ABC Relaxation Training

Professional training in progressive muscle relaxation, autogenic training, breathing exercises, yoga stretching, imagery, and meditation. Students learn to construct individualized relaxation tapes for practice clients and present professional relaxation workshops. Not a substitute for personal relaxation training, personal stress management, counseling, or psychotherapy. (3)

PSYC 479 Advanced Relaxation Training

Proficiency tests for students seeking the Certificate in ABC Relaxation Training. Students demonstrate skills at relaxation training, scripting, tape making, and workshop presentation. Prereq: Psyc 473. (1)

PSYC 481-486 Special Topics

Special concentration each semester on such focused topics such as critical review of an outstanding psychologist's major writings, special research technique, analysis of single modern theory of behavior, new direction in psychology, or discussion of current professional problem. Topics will be posted in School of Psychology and may be listed in Class Schedule. (1-3)

PSYC 495 Independent Study

Supervised individual study or research in specified area of interest. Prereq: consent of instructor and school director. (1-3)

Courses in psychology open to graduate students only. All students must obtain written permission from the master's or doctoral advisor before enrolling in any 500-level course.

PSYC 500 Advanced Statistics

Survey of popular multivariate statistical techniques including experience with SPSS or other computer

statistical packages. Topics may include multiple regression, canonical correlation, discriminant analysis, principal components analysis, factor analysis, cluster analysis, and general issues in the management of large scale data analysis. Prereq: Psyc 407. (3)

PSYC 501 Professional Writing for Psychologists

Refinement of professional writing skills including issues related to grammar, organization, and appropriate style. Introduction to the Publication Manual of the American Psychological Association. Prereq: Psyc 285. (3)

PSYC 505 Clinical and Counseling Psychology

Overview of clinical psychology including review of psychopathology, introduction to basic principles of assessment and treatment, and current issues. Prereq: Psyc 201, 342. (3)

PSYC 511 Basic Relaxation Skills

Clinical training in ABC Relaxation Training. Review of instruction in progressive muscle relaxation, autogenic training, breathing exercises, yoga stretching, imagery, and meditation. Students learn to construct individualized relaxation tapes for practice clients and present professional relaxation workshops. Additional emphasis on theory, research, and clinical applications. Not a substitute for personal relaxation training, personal stress management, counseling, or psychotherapy. (3)

PSYC 512 Cognitive and Behavioral Coping Skills

Clinical training in active approaches to stress management. Emphasis is on problem solving, relapse prevention, and stress inoculation training. Students learn crisis intervention, cognitive restructuring, assertiveness, anger management, negotiation, pain management, and desensitization. In addition, various job-stress topics are explored including stress workshops, time management, and burnout. Not a substitute for personal relaxation training, stress management, or psychotherapy. Prereq: MA students in clinical psychology: competency requirement, Psyc 505, 520. (3)

PSYC 513 Clinical Biofeedback

Foundation and review for professional health care providers preparing for certification boards in clinical biofeedback. Theoretical, research, and technical overview of clinical biofeedback, integration of physiol-

ogy, learning theory, and biofeedback. Biofeedback as treatment modality in stress management, psychosomatic illness, psychotherapy, and muscle re-education. Not a substitute for personal relaxation training, stress management, or psychotherapy. (3)

PSYC 514 Clinical Health Psychology

Applications of clinical psychology in health care; the role of psychological factors in health, stress, and illness and the impact of illness on psychological well-being. Topics include the influence of psychological factors on specific severe, chronic, and stress-related disorders; interventions at patient, family, and health care system levels; and current issues in the practice of clinical psychology within the health care system. (3)

PSYC 515 Chemical Dependence

Psychosocial view of contemporary substance abuse; types and classes of addictive substances; review of treatment approaches. (3)

PSYC 516 Psychopathology

Issues and controversies related to the conceptualization and diagnosis of mental disorders. Epidemiology, etiology, onset, differential diagnosis, symptoms or clinical features, course, and prognosis of specific disorders. Prereq: Psyc 201, 342. (3)

PSYC 520 Basic Clinical Skills

Practical experience in developing basic clinical skills, such as effective inquiry, empathic listening, helping responses, and interpretation. Emphasis on matching therapist style with client characteristics; students prepare to work with clients of diverse backgrounds. Prereq: Psyc 201, 342. (3)

PSYC 530 Advanced Research Methods

Empirical methods of research including descriptive, relational, and experimental approaches. Prereq: Psyc 200, 285. (3)

Courses in psychology open to MA students who have met competency and all PsyD students. All students must obtain written permission from the master's or doctoral advisor before enrolling in any 600-level course.

PSYC 620 Intellectual Assessment

Review of clinical psychometrics; intensive training in lifespan intellectual assessment with emphasis on

the Wechsler tests; introduction to other individual and group intelligence tests; survey of controversial issues and current theoretical models of intelligence. Laboratory course; materials fee. Prereq: MA students: competency requirement, Psyc 270, 505, 520; PsyD students: Psyc 270, 520, or consent of instructor. (3)

PSYC 625 Personality Assessment

Introduction to the objective method of personality evaluation; psychopathological assessment of adults emphasizing MMPI-2 and MCMI-III interpretation; introduction to nonclinical personality evaluation and selected trait measures. Emphasis on writing of clinical reports and reviewing of applied psychometric research. Laboratory course; materials fee. Prereq: MA students: competency requirement, Psyc 270, 505, 520; PsyD students: Psyc 270, 520. (3)

PSYC 631 Advanced Personality Theory

Overview of major personality theories. Emphasis on conceptualization of personality and the process of theory construction within the context of current personality theories. Prereq: MA students: competency requirement and Psyc 342; PsyD students: Psyc 342. (3)

PSYC 633 Social Psychology and Group Dynamics

Survey of research on small group performance and social systems. Discussion of methods and potential applications. Prereq: MA students: competency requirement. (3)

PSYC 634 Community Psychology

Major issues, concepts, and techniques in community mental health. Study in selected techniques and populations. Prereq: MA students: competency requirement. (3)

PSYC 635 Professional, Legal, and Ethical Issues

Issues affecting the practice of professional psychology with emphasis on ethical and professional standards, legislative regulation, professional decision making, and current professional developments. Prereq: MA students: competency requirement. (3)

PSYC 636 Human Development

Human development throughout life. Emotional, social, cognitive, moral, and intellectual domains; gender roles and family relationships. Prereq: MA students: competency requirement. (3)

PSYC 641 Cognitive and Behavioral Therapies

Critical examination of theory and techniques in cognitive and behavioral approaches to therapy. Prereq: MA students: competency requirement, Psyc 316 or 416, Psyc 505, 520; PsyD students: Psyc 316 or 416 and Psyc 520 or consent of instructor. (3)

PSYC 642 Insight Psychotherapies

Critical examination of theory and techniques in psychodynamic and humanistic psychotherapies. Course is both didactic and experiential. Prereq: MA students: competency requirement, Psyc 505, 520; PsyD students: Psyc 520. (3)

PSYC 643 Psychotherapy: Research and Practice

Critical analysis of research on treatment interventions; design and completion of research projects related to therapy and treatment outcome; integration of clinical research and practice. Prereq: MA students: competency requirement, Psyc 505, 520, and two Psyc 640- or 650-level courses; PsyD students: Psyc 520 and two Psyc 640- or 650-level courses. (3)

PSYC 644 Multicultural Psychology and Psychotherapy

Theory and research on culturally based differences in behavior. Impact of such information on psychological assessment and therapy. Prereq: MA students: competency requirement, Psyc 505, 520; PsyD students: Psyc 520. (3)

PSYC 650 Group Psychotherapy

Didactic and experiential exploration of theory and techniques in group psychotherapy. Prereq: MA students: competency requirement, Psyc 505, 520, and consent of instructor; PsyD students: Psyc 520 and consent of instructor. (3)

PSYC 651 Experiential Cognitive Group Therapy

Didactic and experiential introduction to the experiential context of group psychotherapy. This form of therapy is based on action methods and role playing combined with therapeutic simulation of cognitive techniques. Prereq: MA students: competency requirement, Psyc 505, 520, and consent of instructor; PsyD students: Psyc 520 and consent of instructor. (3)

PSYC 652 Psychotherapy of Women

Issues and controversies related to the participation

of women in the therapeutic relationship both as psychotherapists and as clients. Prereq: MA students: competency requirement, Psyc 505, 520; PsyD students: Psyc 520. (3)

PSYC 653 Brief Psychotherapies

Three models of contemporary brief psychotherapy: single-session interventions, planned brief psychotherapy, and short-term psychodynamic psychotherapy. Prereq: MA students: competency requirement, Psyc 505, 520; PsyD students: Psyc 520. (3)

PSYC 654 Child and Adolescent Therapy

Didactic foundation to individually oriented child and adolescent psychotherapy. Challenges involved in working with school-age children and adolescents. Review of developmental psychopathology and family systems models as well as assessment strategies. Emphasis on conducting a developmentally appropriate interview and learning a range of accountable treatment techniques. Introduction to outcome measurement. Prereq: MA students: competency requirement, Psyc 505, 520; PsyD students: Psyc 520. (3)

PSYC 655 Marital and Family Therapy

Didactic foundation to skills necessary for marital and family therapy. Review of literature on normal marital and family functioning, marital and family conflicts, and basic interventions designed to enhance marital and familial functioning. Specific strategies for assessment and intervention. Prereq: MA students: competency requirement, Psyc 505, 520; PsyD students: Psyc 520. (3)

PSYC 660 Employment Testing

Individual testing of aptitudes and personality; honesty testing. Materials fee. Prereq: MA students: competency requirement, Psyc 344 and 444 or 662; PsyD students: Psyc 344, 444 or 662. (3)

PSYC 662 Organizational Behavior and Practice

Current concepts and issues relating to behavior in organizations; study of the macro and micro processes of organizations and the role of psychology in program evaluation and the consultative process. Prereq: MA students: competency requirement. (3)

PSYC 664 Job Analysis and Performance Management

Theories and techniques used in analyzing and

classifying employee positions; models and methods for analyzing and improving employee performance. Prereq: MA students: competency requirement, Psyc 344, Psyc 444 or 662; PsyD students: Psyc 344, 444, or 662. (3)

PSYC 667 Advanced Organizational Psychology

Review of contemporary theories and research on selected topics in organizational behavior including workplace perception, attitudes, and relations to measurable behavior. Topics may include psychological climate, organizational culture, commitment, leadership, work-family conflicts, and person-organization fit. (3)

PSYC 668 Organizational Assessment and Development

Approaches for analyzing groups and organizations; methods and techniques for improving performance of groups and teams. Prereq: MA students: competency requirement, Psyc 344, 444 or 662; PsyD students: Psyc 344, 444 or 662. (3)

PSYC 669 Instructional Design and Training

Theoretical issues and methods for identifying training issues such as goal and task analyses, feature analysis, and performance analysis. Overview of the associated instructional and learning issues. Prereq: MA students: competency requirement, Psyc 344, 444 or 662; PsyD students: Psyc 344, 444 or 662. (3)

PSYC 681 Instructor Development Program

A multifaceted learning experience for new part-time faculty and doctoral students. Participants learn essential teaching skills, rehearse a wide range of teaching methods, reflect on their teaching during videotaped consultation, and prepare a teaching portfolio. Review of didactic material and hands-on learning activities. Prereq: consent of instructor. (1-3)

PSYC 681-689 Seminar

Selected subjects; content varies each semester. Prereq: specified in Class Schedule. (1-3)

PSYC 690 MA Thesis

Preparation, development, and execution of acceptable experimental or library research project under supervision of student's thesis committee. For MA students only. Prereq: competency requirement and Psyc 307 or Psyc 407, Psyc 501, 530. (3)

PSYC 695 Independent Study

Supervised individual study or research in specified area of interest. Prereq: MA students: competency requirement, consent of instructor and school director; PsyD students: consent of instructor and school director. (1-3)

PSYC 699 MA Practicum

Professional services of no less than 1,000 hours during period of not less than 25 weeks in an applied phase of psychology in recognized institution or vocational setting under competent supervision. Practicum report required. In place of part of the practicum report, students may attend a practicum seminar, if offered. Prereq: competency requirement and written approval of the practicum coordinator, site supervisors, and practicum committee. Students in the clinical and industrial/organizational psychology programs must complete all course work; students in the clinical professional psychology program must complete at least 13 courses. (3)

PSYC 710 Biopsychology

Comprehensive introduction to basic neuroanatomy, physiology, and clinical neuroscience. Emphasis on brain-behavior relationships. Prereq: Psyc 310 or 410. (3)

PSYC 712 Psychopharmacology

Examination of different classes of psychopharmacological agents and interventions in psychobiological conditions. Emphasis on use of psychotropic medications in management and treatment of behavioral disorders. Prereq: Psyc 710. (3)

PSYC 716 Applied Learning and Cognitive Processes

Research and theory on the acquisition, retention, and loss of acquired responses; memory and information processing. Focus on applications with humans. Prereq: Psyc 316 or 416 and Psyc 326 or 426. (3)

PSYC 719 Clinical Neuropsychology

Major neurological disease syndromes including the group of dementias, seizure disorders, and syndromes associated with cardiovascular disease and traumatic brain injuries. Case study models, multidisciplinary referral issues, and neuropsychological testing data. Extended neuropsychological mental status examination techniques with possible patient contact at cooperating institutions. Prereq: Psyc 710 or consent of

instructor. (3)

PSYC 720 Neuropsychological Assessment

Introduction to behavioral neurology and principles of brain-behavior relationships; comprehensive neuropsychological empirical screening battery and introduction to the Halstead-Reitan Neuropsychological Battery and computer-based adaptive assessment instruments. Laboratory course; materials fee. Prereq: Psyc 620, 710. (3)

PSYC 723 Behavioral Assessment

Techniques of behavioral assessment and the relationship to therapy planning and evaluation. Application to clinical case material. Prereq: Psyc 641. (3)

PSYC 725 Projective Personality Assessment

Intensive training in the administration, coding, and clinical interpretation of the Rorschach Inkblot Method as a lifespan projective technique; training in the use of the Comprehensive System; other projective techniques, notably the Thematic Appreciation Technique; accessing interpretative software. Laboratory course; materials fee. Prereq: Psyc 625. (3)

PSYC 727 Advanced Psychodiagnostics

Seminar on becoming a reflective lifespan psychodiagnostician. Review of utility and limitations of DSM-based classification of psychopathology; introduction of a developmental "successive sieve" assessment model emphasizing conceptual relationships among tests; equal emphasis on psychometric and projective assessment, psychopathological inference from psychodynamic personality structure, and neuropsychological interface issues. Development of a personal accountable writing style. Assessment conclusions linked to specific treatments. (3)

PSYC 730 Applied Research Methods

Issues involved in preparing a research or grant proposal. Methods and issues in conducting empirical research in the field or based upon research questions developed in the field. Evaluation of the effectiveness of programs involving behavioral and financial criteria. Experience in empirical evaluation of a current program. Prereq: Psyc 530. (3)

PSYC 735 Principles of Clinical Supervision

Theories and techniques of clinical supervision. A

laboratory course which provides didactic instruction and practical experience in the development of supervisory skills. Prereq: Psyc 641, 642, 791, 792. (3)

PSYC 740 Advanced Psychotherapy Seminar

In-depth critical consideration of one or more advanced psychotherapy topics to be selected by instructor. Topics may focus on psychotherapy theory, research, techniques, or practice. Prereq: Psyc 641, 642. (3)

PSYC 741 Child Psychopathology

Didactic foundations of contemporary developmental psychopathology. Emphasis on DSM-IV based assessment, family systems model, linking diagnoses to empirically supported treatments, child abuse evaluation, and developing competence in multicultural assessment throughout the socioeconomic spectrum. (3)

PSYC 789 Doctoral Project Seminar

Formal preparation for doctoral project. Students complete a formal doctoral project proposal in one of the following five areas: traditional empirical study, case study, review of the literature, applied program-targeted research such as grant proposals, and treatment and program evaluations. Prereq: Psyc 500, 530, 730, and doctoral candidacy. (3)

PSYC 790 Doctoral Project

Completion of one of the five following projects: traditional empirical study, case study, review of the literature, applied program-targeted research such as grant proposals, and treatment and program evaluations. Prereq: Psyc 797 and doctoral candidacy. (3)

PSYC 791-794 Clinical Practicum

Sequence of four semesters of supervised practicum placement at approved agencies where students can obtain practical experience in clinical skills. Duties and responsibilities will increase with each additional semester. Supervision will be provided on site by agency professionals and at the University by a clinical faculty member with a small group of students in a weekly practicum seminar. Prereq: relevant testing or therapy course and consent of practicum coordinator. (3)

PSYC 799 Clinical Internship

Clinical internship at an agency approved by the

internship coordinator. Ordinarily one year of full-time training. Prereq: completion of all required course work and doctoral candidacy. (3)

Public Administration

PADM 400 Public Service in the United States

Introduction to theory and practice of public administration in the US. Emphases on US governmental structure and processes, nature and theory of complex service organizations, and current trends with future directions of public service management. (3)

PADM 401 Management Practices for the Public Service

Management competencies relevant for public, health, environmental, criminal justice, and nonprofit organizations. Overview of management concepts, theories, models, and techniques in managing change, supervision, communication, ethics, and organization. (3)

PADM 402 Issues in the Development and Administration of Public Policy

The process of making and implementing effective public policy with special attention to the influences of policies, bureaucracy, media, interest groups, and intergovernmental structure. Case studies of selected issues. Prereq: Padm 400. (3)

PADM 403 Quantitative Methods and Tools for Public Administrators

Fundamentals of descriptive and inferential statistical analysis. Computer applications that support the presentation and analysis of quantitative data and the role of computers in information systems management. (3)

PADM 404 Human Resource Management

Skills, techniques, and practices used in public health, environmental, criminal justice, and nonprofit organizations. Topics include organizing, staffing, the personnel function, merit systems, labor relations, equal employment opportunity, workplace diversity, and employee rights. Padm 422 may replace this core course for nonprofit students. Prereq: Padm 400. (3)

PADM 405 Public Budgeting and Financial Management

Concepts, methods, and processes of financial management with an emphasis on the public sector. Topics include budget preparation, financial analysis, organi-

zation of the finance function, pricing of services, taxes and other revenue sources, and financial reporting. Students in the nonprofit concentration may take this or Padm 457 to meet the budget and finance course requirement. Students in health services management should substitute Padm 457 for this course. Prereq: Padm 400, 403. (3)

PADM 406 Research and Evaluation Methods

Methods and concepts for program and policy analysis including problem formulation, research design, and data collection methods. Emphasis on management skills of needs assessment, program design, implementation, evaluation, and cost analysis. Prereq: Padm 400, 403; recommended Padm 400. (3)

PADM 407 Managing Change in Public Organizations

Concepts, techniques, and practices used in managing change in public organizations. Topics include organization culture, leadership, conflict, the management team, performance indicators, technology, and communication. Prereq: Padm 400 and 401; Padm 404 or consent. (3)

PADM 412 Labor/Management Relations in the Public Sector

Collective bargaining in public sector; unionization of public employees; public sector labor law and third party processes; contract preparation and administration; grievance procedures. Prereq: Padm 404. (3)

PADM 413 Human Resource Development

Concepts, techniques, and public policies in human resources. Planning and policy. Ongoing training and mobility within the organization. Affirmative action issues. Prereq: Padm 404. (3)

PADM 418 Emerging Management Techniques and Theory

Analysis of major emerging techniques for change management, such as total quality management (TQM), re-engineering, reinventing government. Prereq: Padm 401, 404, or consent of instructor. (3)

PADM 421 The Nonprofit Sector in the US

History and purpose of nonprofit organizations in the US. Scope and legal structure of nonprofit sector. Historical, political, economic, and sociological perspective on nonprofit organizations. (3)

PADM 422 Human Relations in Nonprofit Organizations

Human resource management in nonprofit organizations including personnel and volunteer management, working effectively with a board of directors, and managing change. (3)

PADM 424 Resource Development in Nonprofit Organizations

Fundraising, marketing, and strategic planning in the nonprofit context; identifying, serving, and communicating with key constituencies including funders, media, constituents, and the community. (3)

PADM 426 Financial Management for Nonprofit Administrators

Systems for sound financial management of nonprofits. Fund accounting, budgeting, pricing and costing, negotiating grants and contracts, interpreting financial statements, managing debt and cash flows, selecting an auditor, raising revenues for cash reserves and capital needs, and using financial information to make management decisions. (3)

PADM 431 Environmental Law

Causes of and alternatives to pollution of the air, land and water. Selections from case law and conservation philosophers. (3)

PADM 432 Environmental Economics

Examination of environmental policy making using the tools of economic analysis. Alternative methods of addressing problems such as air pollution, acid rain, hazardous waste disposal, and water pollution. Current environmental regulations evaluated from an economic perspective. See Econ 322. (3)

PADM 433 Wetlands

Basic scientific, technical, legal, and public policy issues involved in defining, delineating, regulating, conserving, and restoring wetlands. Students will make a preliminary assessment of a natural or disturbed area's wetland status, including biology, hydrology and soils, and outline the potential issues involved in developing, conserving, or restoring the area. This course alone will not qualify students as professional wetlands delineators. (3)

PADM 434 The Great Lakes

Ecology, chemistry, and environmental policy issues surrounding the Great Lakes with emphasis on Lake Michigan. Lecture, field trips, and guest lecturers. (3)

PADM 435 Geographic Information Systems

Computer collection, use, and display of geographic data. GIS applications, input and manipulation of data, conversion of data into usable databases, data analysis, and generation of map output and reports. Prereq: Cst 150 or computing experience and consent of instructor. (3)

PADM 437 Environmental Sociology

Relationship between humans and their environment. How humans fit into the biological ecosystem; the nature of human adaptation and how it has affected the planet. (3)

PADM 438 Environmental Policy and Politics

Special topics that focus on trends in environmental policy and politics. Issues include pollution, global and international conflict, and local regional problems like Superfund and brownfield redevelopment. (3)

PADM 439 Global Environmental Politics

The state of the natural environment and the status of international efforts to address common environmental problems. The record of global environmental cooperation and what it indicates regarding the prospects for global governance. See Pos 457. (3)

PADM 441 Introduction to Justice Administration

Justice administration in the US and how the various parts of the system interrelate; key policy issues and dilemmas facing the system including determinate sentencing laws and community policing and corrections. (3)

PADM 442 Justice Administration II: The Police

Roles and responsibilities of the police in society with special emphasis on leadership and community relations; legal, technical, and administrative topics in police administration. Budgeting, personnel, and technical support with focused attention to the administration of community policing strategies. Prereq: Padm 441. (3)

PADM 447 Diversity and Conflict Resolution

Racial and ethnic relations in criminal justice administration. Interpersonal relations, the nature of conflict, and methods of conflict resolution. Mediation, arbitration, role playing, and language exploration. (3)

PADM 448 Leadership in Public Policy

Leadership in the public policy process, including models of leadership and public/private partnerships in local governance. (3)

PADM 450 Health, Illness, and Medicine in American Society

Sociopolitical analysis of the organization and delivery of health care in the US. Topics include the meaning of illness, the social transformation of medicine; the effects of class, race, and gender on disease; the medicalization of birth; AIDS; assisted suicide; health care reform; professional autonomy; alternatives to managed care. (3)

PADM 451 Introduction to Health Services

History and development of the health services system. Description and evaluation of ambulatory, acute, and long-term care; mental health; and public health systems. (3)

PADM 453 Medical Ethics and the Law

Administrative concerns regarding ethical and legal aspects of the delivery of health services. Extensive use of case studies. Prereq: PADM 451 or consent of instructor. (3)

PADM 454 Public Health and Urban Disease

Public health orientation to epidemiology in study of factors affecting urban disease. Environmental factors producing significant changes in incidence such as lead poisoning, venereal disease, salmonellosis, infant mortality, and cancer. Special attention will be given to public health departments. Prereq: PADM 451 or consent of instructor. (3)

PADM 455 Managed Care and Integrated Service Networks

Managed care and integrated delivery systems as they affect health care delivery and policy. Management issues including contracting, compensation, provider behavior, authorization, and utilization systems. Provider and patient issues, particularly those related to Medicare, Medicaid, and behavioral health services

including mental health, substance abuse, and chemical dependency. Prereq: PADM 450 or 451, 401 or 452, or consent of instructor. (3)

PADM 456 Economic Issues in Health Service Management

Economic theory as it applies to the delivery of health care services. Economic analysis of major health care problems. Topics include high and rapidly rising costs, inequality, and difficulties of access, and cross cultural differentials in health care indices. Economic concepts and tools used to evaluate the hospital, pharmaceutical, and private insurance industries; the impact of technology on health; and the role of values in health care reform. Fulfills the economics requirement for students in the health services, nonprofit management, and administrative studies concentrations. Prereq: PADM 450 or 451 or consent of instructor. (3)

PADM 458 Marketing Health Management

Marketing process and strategy as they pertain to the current environment in health care. Application of concepts related to buyer behavior, marketing research, market segmentation, marketing mix, and sales. Prereq: PADM 450 or 451. (3)

PADM 459 Long-Term Care Administration

Principles of long-term care. Administrative requirements, licensing procedures, funding strategies and regulations, pertinent state and federal legal systems, preparation for state licensing examinations. Prereq: PADM 450 or 451 or consent of instructor. (3)

PADM 460 Issues in Intergovernmental Relations

Intergovernmental relations and their impact on local government. The constitutional context and evolution of federalism; increasing federal role in local affairs; fiscal intergovernmental relations; court decisions that have facilitated the expanded federal role. Administrative relations, mandates, and impact of regulation by higher level governments. Prereq: PADM 400. (3)

PADM 461 Government Management

Management of local units of government from standpoint of city manager, township supervisor, school superintendent, or other chief executive officer. Day-to-day operational aspects of municipal administration; supervision of basic public services. (3)

PADM 462 Urban Politics

Problems of governing in urban areas; formal and

informal structures and power bases of local government; conflicts and competition between racial and ethnic groups and between city and suburban areas. Application of political machine and community power models in case studies including studies of Chicago politics. Prereq: Padm 400. (3)

PADM 463 Urban Policy

Policies and policy-making processes at all levels of government that shape the quality of life in metropolitan areas; relationship between political and market processes; class, gender, racial and regional consequences of different policies. (3)

PADM 466 Government Law

Legal issues related to governmental structure, intergovernmental relations, governmental service provision, and citizen participation in government decision making. Important issues and key concepts in government law. Impact that legal structures have on the administration of government. Prereq: Padm 400. (3)

PADM 467 Governing Metropolitan Areas

Study of regional governance issues in metropolitan areas including delivery of local government services that cross political boundaries. Prereq: Padm 400. (3)

PADM 468 Introduction to Regional and Urban Economic Development

History, trends, and proposed solutions to problems and conflicts affecting economic development of metropolitan areas and regions within US. Alternative planning and programming strategies of federal programs. Focus on public sector strategies to enhance or redistribute economic activities not efficiently handled in private market. Prereq: Econ 370 or Padm 470 or consent of instructor. (3)

PADM 469 State and Local Government

Politics, structure, and governance of state and local governments; interrelationships of governments in metropolitan areas; selected policy issues of concern to state and local governments. (3)

PADM 470 Public Finance and Public Policy

Major public finance issues such as provisions for change in reliance on local taxes, fees, and state revenue sources; cost benefit analysis; financial consequences

of privatization; contracting for services; expenditure pressures and government indebtedness and solvency problems. Property, income and sales taxes along with local fees and intergovernmental revenues. May be used to fulfill economics requirement for students in the local government and administrative studies concentrations. Prereq: Padm 400, 405. (3)

PADM 471 Administrative Law

Administrative legislation and adjudication, judicial review of administrative acts through use of cases and other materials. (3)

PADM 473 Administration of Environmental Protection Programs

Trends, techniques, concepts, constraints, and technologies in the administration of environmental programs at all levels from public and private perspectives. Responsibilities of federal/state/local governments, corporations, and private citizens regarding environmental decisions. Policies involving trade-offs, decision making, and liabilities. Basic environmental science. Domestic and international issues. Prereq: Padm 400. (3)

PADM 475 Problems in Public Administration

Major problem areas in public administration including ethical considerations and political aspects of policy implementation. (3)

PADM 490 Thesis

Design, development, and execution of scholarly research project under supervision of a two-member thesis committee named by student with approval of advisor. Thesis entails original analysis and demonstrated knowledge of pertinent literature. Thesis students are permitted to reduce number of elective courses required for the MPA by one. Prereq: all other requirements for the MPA degree, GPA of 3.7 or higher, and consent of advisor. (3)

PADM 491 Practicum in Health Services Management

Research and analytic project analyzing and proposing solutions for administrative and/or policy problems. To be taken in final semester. Students should register for the practicum in their appropriate concentration. Prereq: GPA of 3.0 or higher. (3)

PADM 492 Practicum in Environmental Management

Research and analytic project analyzing and proposing solutions for administrative and/or policy problems. To be taken in final semester. Students should register for the practicum in their appropriate concentration. Prereq: GPA of 3.0 or higher. (3)

PADM 493 Practicum in Government Management

Research and analytic project analyzing and proposing solutions for administrative and/or policy problems. To be taken in final semester. Students should register for the practicum in their appropriate concentration. Prereq: GPA of 3.0 or higher. (3)

PADM 494 Practicum in Nonprofit Management

Research and analytic project analyzing and proposing solutions for administrative and/or policy problems. To be taken in final semester. Students should register for the practicum in their appropriate concentration. Prereq: GPA of 3.0 or higher. (3)

PADM 495 Independent Study

Individual project in concentration area pursued under supervision of an instructor. Prereq: consent of instructor and program director. (1-3)

PADM 498 Field Internship in Public Administration

Structured and supervised administrative internship in government or nonprofit agency. For students seeking practical administrative experience within their concentration area. Prereq: program requirements and consent of instructor; waived for those with managerial experience. (3)

Reading

(See: Education: Language and Literacy)

Real Estate

REES 401 Real Estate Process

Introduction to urban real estate markets; how real estate markets work; major techniques used to analyze those markets; cash flow models; taxation and finance; emphasis on case studies. Prereq: Acct 405 or equivalent. (3)

REES 411 Real Estate Finance and Investment

A broad perspective on issues in real estate financing and investment. Basic project evaluation, financing strategies and capital market issues. Prereq: Fin 408 or equivalent. (3)

REES 421 Real Estate Law

Major legal concepts pertaining to acquisition, use, management, and transfer of real estate. Focus on legal issues relating to property rights, contracts, and public controls. (3)

REES 431 Real Estate Marketing and Management

Characteristics and needs of tenants; how the ownership and management of buildings respond to these needs. Key elements common to the operation and marketing of all types of property; emphasis on office buildings. (3)

REES 481 Real Estate Development

Various types of development: residential, retail, industrial, and office. The major participants' roles and how they relate to each other; guest speakers and case studies. (3)

Secondary Education

(See: Education: Secondary)

Sociology

SOC 402 Seminar in Urban Studies

Contemporary urban problems, including police, housing, racial discrimination, fiscal crisis, employment, and public services in the metropolis. Analysis of leading central city problems and critique of leading academic theories. (3)

SOC 403 Quantitative Methods

Fundamentals of descriptive and inferential statistical analysis; computer applications that support the presentation and analysis of quantitative data. (3)

SOC 404 Contemporary Social Theories

Main schools and tendencies of 20th-century sociology. Topics may include the Chicago School, symbolic interactionism, functionalism, conflict

theory, exchange theory, phenomenological sociology, ethnomethodology, and critical theory. (3)

SOC 405 The Development of Sociology

Development of classical perspectives within sociology. Karl Marx, Max Weber, Emile Durkheim and others. (3)

SOC 406 Seminar in Sociological Theory

Advanced seminar covering issues of current interest in social theory. Topics vary by semester and by instructor. Prereq: Soc 303, 304, or consent of instructor. (3)

SOC 411 Culture and Politics in Latin America

Intersection of culture and politics, focusing on indigenous peoples in Latin America. How culture and ethnic identity are shaped by political factors. How "Indians" were incorporated and marginalized by colonial and national processes; impacts of the cocaine trade on national politics and indigenous culture; and mobilization of indigenous identity in social movements. (3)

SOC 414 Globalization, Society, and Culture

Social, economic, political, and cultural systems that span nation-state borders. Current status of nationalism, nation-states, and the global economy; how cultural identities and communities are formed within the context of global systems. Topics may include effects of world markets on economies and societies, transnational migration and social movements, indigenous groups' self-representation through global technologies such as video and the Internet, hybrid identities and "bifocal" cultural frameworks. See Anth/Pos 414. (3)

SOC 415 Work and Organizations

Classical and contemporary perspectives on the importance of work and organizations in social life. Changing forms of organization, new technologies, and their impact upon quality of work life. (3)

SOC 418 Social Change

Perspectives and paradigms in classical and contemporary theories of social and cultural change; examination of processes of change and social movements. (3)

SOC 420 Sociology of Inequality

Nature and function of social inequality. Selected theories of inequality; American stratification system;

comparative inequality; indicators of social class position; class consciousness and identification; prestige and power; class position and its correlates; processes of social mobility. (3)

SOC 421 Sociology of Politics

Sociological contributions to research in political behavior; political motivation; participation and apathy; formation of political attitudes; voting organization and structure of political parties; political movements; character of authority and power; political elites and decision makers. (3)

SOC 430 Practicum in Aging

Field experience in aging-related occupations. Prereq: consent of instructor. (3)

SOC 432 Seminar in Evaluation Research

Techniques of evaluation research applied to analysis of particular social programs. Discussion of steps in evaluation research process, data-gathering techniques, and methods of analysis and interpretation. (3)

SOC 433 Public Policies in Aging

Political and social factors in development of public policies and programs dealing with older citizens; Medicare and other programs. (3)

SOC 436 Basic Concepts and Issues in Aging

Elderly stage of life cycle; conceptual framework for viewing elderly and their status in society; general theoretical approaches to old age. (3)

SOC 437 Aging, the Aged, and the Family

Issues of three- and four-generational families. Practical overview of developmental issues; family intervention model. (3)

SOC 439 The Sociology of Death and Dying

Social processes involved in death and in dying; how these acts are viewed by society; adjustment processes; effects on surviving individuals and society. (3)

SOC 440 Sex, Gender, and the Social Order

The social construction of gender definitions; focus on how gender roles in the family, media, and work place are constructed. (3)

SOC 445 The Study of Population

Theories of population growth; balance between population, natural resources, and cultural norms; methods of population analysis; population distribution and density; age, sex, and ethnic composition; fertility, mortality, migration, and their influences on population change. (3)

SOC 446 Community Organizations

Nature of urban community structure; theoretical bases for community organization activity; various approaches to community organization practice. Impact of urbanization, industrialization, and bureaucratization on modern community; relevance of community in modern society. (3)

SOC 449 Environmental Sociology

Relationship between humans and their environment. How humans fit into the biological ecosystem; the nature of human adaptation and how it has affected the planet. (3)

SOC 450 Sociology of Culture

Theory and method in the sociology of culture; topics may include high culture and popular culture, modernism and postmodernism, the politics of mass media, and the role of religion in contemporary societies. (3)

SOC 453 Health, Illness, and Medicine in American Society

Organization and delivery of health care in the US; topics include the meaning of illness, the social transformation of medicine, professional autonomy, the medicalization of birth, AIDS, assisted suicide, health care reform, and alternatives to managed care. Prereq: six sem hrs in sociology. (3)

SOC 480 Seminar in Research Methods

Theoretical concepts and methodology applied to various social phenomena. Presentation and critique of student-designed research projects. Prereq: Soc 403 or consent of instructor. (3)

SOC 489 Seminar: Selected Topics in Sociology

Examination and discussion of particular issue or phenomenon. Content may vary from semester to semester depending on instructor. May be repeated to maximum of six semester hours. (3)

SOC 490 Thesis

Prereq: consent of instructor. (3)

SOC 495 Independent Study

Pursuit of individually selected topics. Topic may not be part of regular curriculum; student must demonstrate significant interest and preparation for study. Prereq: consent of instructor. (1-4)

SOC 496 Suburban Policy Issues

Chicago's post-World War II suburban development and the post-industrial transformation of the metropolitan region. Specific policy issues including economic development and suburban sprawl, taxation, service delivery, housing, crime, and transportation. (3)

SOC 497 Advanced Urban Policy Issues

Theoretical approach to urban issues. Specific discussion of local communities and community organizations, crime and delinquency, segregation and poverty. (3)

Spanish

SPAN 410-440 Studies in Hispanic Literature

Medieval literature, Golden Age literature, Romanticism, Generation of '98, 19th-century Latin American literature, Modernism, Mexican literature of the 20th century. See current Class schedule for courses offered each semester. (3)

SPAN 415 Culture of Latin America

Broad survey of Latin American culture. Taught in Spanish. (3)

SPAN 419 La novela corta

Contemporary short novels from Latin America and Spain. Taught in Spanish. (3)

SPAN 420 Ensayo hispanoamericano

Survey of the most important Hispanic-American essayists: Bolivar, Marti, Vasconcelos, Mistral, Castellanos, Carpentier, Garcia Marquez, Paz, Fuentes, Poniatowska. Taught in Spanish. (3)

SPAN 422 Narradoras hispanas: Siglo XX

Novels and short stories by women from Latin America and Spain. Taught in Spanish. (3)

SPAN 428 Escritores del Boom

Novels and short stories by Gabriel Garcia Marquez, Carlos Fuentes, Mario Vargas Llosa, Julio Cortazar and other Boom writers. Taught in Spanish. (3)

SPAN 437 La novela hispana: Siglo XX

Review of the important novels from Spain and Latin America in the 20th century. (3)

SPAN 440-460 Studies in Selected Authors, Genres, and Topics of Hispanic Literature

Cervantes, Garcia Marquez, Neruda, Golden Age theatre, lyric poetry, Spanish theatre of the 20th century, 20th-century Latin American novel, 20th-century Latin American short story, novels of the dictatorship, the essay, Latin American poetry, the Hispanic novel, Latin American women writers. See current Class Schedule for courses offered each semester. (3)

SPAN 441 Poesia lirica

Survey of major 20th-century poets from Latin America and Spain: Neruda, Lorca, Mistral, Borges, Cernuda, Paz, Storni, Vallejo, Huidobro, Castellanos, and others. Taught in Spanish. (3)

SPAN 444 Literatura oral hispanoamericana

Survey of Hispanic American authors with emphasis on the oral nature of the texts. Taught in Spanish. (3)

SPAN 445 United States Latino Writers

Poetry and prose of US Latinos that write in Spanish. (3)

SPAN 448 Literatura testimonial

A study of the most important works of testimony of Latin America. (3)

SPAN 458 Musica popular y literatura

The most important authors that use popular music in their novelistic techniques. (3)

SPAN 459 Espanol para hispanohablantes

For students of Hispanic background who have some knowledge of Spanish. Emphasis on written and oral communication to build vocabulary and improve spoken and written Spanish. (3)

SPAN 461 Posboom

Study of various Latin American authors, such as Sainz, Jose Agustin, Puig, Peri Rossi, Ferre. Taught in Spanish. (3)

SPAN 463 Phonetics and History of the Language

Survey of the history of the Spanish language in Spain and Latin America. (3)

SPAN 465 El Ensayo en Latinoamerica y Espana

(3)

SPAN 470-480 Hispanic Civilization and Culture

Spain, Central America, South America, Mexico, Caribbean. See current Class Schedule for courses offered each semester. (3)

SPAN 475 Cultura popular y literatura

Reading, discussion, and analysis of works that include popular culture, such as music, movies, sports, and soap opera. (3)

SPAN 477 La cultura hispana a traves del cine

Aspects of Hispanic culture examined through selected films from Latin America and Spain. Taught in Spanish. (3)

SPAN 478 Politica y sexualidad en America Latina

(3)

SPAN 490 Thesis

Prereq: consent of instructor. (3)

SPAN 495 Independent Study

Prereq: consent of instructor. (3)

Special Education

(See: Education: Special Education)

Speech

SPCH 492 Special Topics

Focused course work dealing with a particular communications area of current interest. (3)

Teacher Leadership

(See: Education: Teacher Leadership)

Theatre

All courses are restricted to majors only and require departmental prerequisites and consent of instructor. Course descriptions for Fast Track courses may be obtained by calling the Theatre Conservatory at 312-341-3719.

THAR 400 Special Problems in Theatrical Production I: Lights, Sound, Makeup

Advanced study in lighting, sound, and makeup design for the stage. Focus on analysis, practical application, theatre safety, and innovative techniques and materials. Open to Fast Track students only. (4)

THAR 401 Special Problems in Theatrical Production II: Sets, Props, Costumes

Advanced study in sets, prop, and costume design for the stage. Focus on analysis, practical application, theatre safety, and innovative techniques and materials. Open to Fast Track students only. (4)

THAR 402 Dramaturgy and Production Preparation

Script selection and analysis, dramatic theory, dramaturgy, and other prerehearsal considerations of the text. Open to Fast Track students only. (4)

THAR 403 Dramaturgy

Script selection and analysis, dramatic theory, dramaturgy, and other “prerehearsal” considerations of the text. (3)

THAR 406 Stage Movement and Combat

Advanced study in the application of stage movement, stage combat, and choreography for the high school dramatics teacher. Open to Fast Track students only. (3)

THAR 407 Voice and Body Training

Advanced study of teaching voice and body training to young actors. Survey of techniques and applications. Open to Fast Track students only. (3)

THAR 408 Period Styles

The study of theatrical styles for the director; emphasis on actor training, research, and interpretation. Selections from period plays from the Greeks to Shaw. Open to Fast Track students only. (3)

THAR 409 Conditioning

To be taken every semester. (0)

THAR 411 Stage Direction: Literary Adaptation

Techniques of stage direction focused on the director as literary adapter of nondramatic texts. Material appropriate for high school dramatics teachers. Open to Fast Track students only. (3)

THAR 420 Acting for the Musical Stage I

Analysis of book, music, and lyrics and their relationship in musical theatre performance. Lectures, demonstrations, and individually critiqued performances from musical theatre repertoire. Individual coaching in master class setting; emphasis on vocal technique and stage movement. (3)

THAR 421 Acting for the Musical Stage II

Theories and practices of ensemble work in musical theatre based on performance and critiques of duets and small ensemble scenes from musical theatre repertoire. (3)

THAR 422 Acting for the Musical Stage III

Advanced performance course stressing period musical styles, choreography, and large ensemble/choral singing. Styles covered include operetta, vaudeville, musical comedy, musical drama, new Broadway opera, the revue, and plays with music. (3)

THAR 423 Acting for the Musical Stage IV

Advanced performance course stressing contemporary developments in musical styles including the work of Stephen Sondheim, the influence of rock and rap, and multicultural influences on the evolution of the musical theatre canon. (3)

THAR 424 History of Musical Theatre

Historical evolution of musical theatre; ideas, styles, and contributions of the mature musical's most influential creative artists. (3)

THAR 426 Dance for the Musical Stage

Advanced performance course in dance skills needed on the musical stage, including ballet, jazz, tap, hip-hop, and ballroom dancing. (3)

THAR 429 Acting for the Musical Stage V: Cabaret

Advanced study of cabaret theatre; important historical contexts and contemporary forms. Individual coaching in cabaret material; final performance in a cabaret setting. (3)

THAR 430 Acting on Camera I

Adapting stage acting techniques for camera; focus on work for film including improvisations, monologues, and scenes from plays. (3)

THAR 431 Acting on Camera II

Adapting stage acting techniques for camera; focus on work for television and commercials. (3)

THAR 432 Advanced Vocal and Physical Preparation I

In-depth work on the performer's resources of voice and body. Exercises in relaxation, physical awareness, and coordination; focus on alignment, breath, and vocal production. (3)

THAR 433 Advanced Vocal and Physical Preparation II

More complex aspects of breath, sound, and specialized physical skills and techniques. Focus on the actor's creative process as the integrating link of the voice, body, emotions, and intellect. (3)

THAR 434 Advanced Vocal and Physical Preparation III: Shakespeare

Development of vocal and physical skills necessary to fulfill the demands of classical texts, particularly the works of William Shakespeare. (3)

THAR 435 Advanced Vocal and Physical Preparation IV: Dialects

Stage dialects most needed by performers on the

contemporary stage. (3)

THAR 440 Audition Techniques and the Theatre Business

Critiques of prepared audition material and guest lectures by theatre professionals. Preparation of individual theatrical resume, photos, and notebooks of audition-ready monologues. (3)

THAR 441 Stage Management

(3)

THAR 442-447 Advanced Studies in Theatre Production

Aspects of theatre business including play production, stage management, theatre management, and theatre administration/marketing. (1-3)

THAR 448 Stage Directing I

Introduction to craft of stage direction through lectures, discussions, play analysis, and presentation of short scenes. (3)

THAR 449 Stage Directing II

Direction of one-act play; entire process from script analysis and production conceptualization to public performance. (3)

THAR 450 Rehearsal and Performance

Supervised rehearsal and performance time. Admission by audition only. Semester hours assigned according to role or function; may be repeated up to eight sem hrs Prereq: consent of instructor. (1-4)

THAR 452 Advanced Acting: Technique

In-depth exploration of the various aspects of acting technique. Survey of major acting techniques and practical applications. (3)

THAR 453 Advanced Acting: Scene Study

The work of technique applied to an in-depth analysis of contemporary scenes and plays. Survey of major approaches to scene study and practical applications. (3)