

# Course Descriptions

## Accounting

### ACCT 405 Accounting for Executives

Functions of the modern executive including the duties, expectations, and responsibilities. Topics include 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 Seminar in 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 director or department chairperson. (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)

## Applied Music

(See: Music: Applied)

## Biology

Courses open to upper-level undergraduate and graduate students.

### BIOL 330 Wetlands Delineation

See Envs 330. Prereq: Biol 112 or 201 and Chem 100 or 101. (3)

### BIOL 335 Great Lakes

Ecology, chemistry, and environmental policy issues surrounding the Great Lakes; emphasis on Lake Michigan. Lectures, field trips, and guest lecturers. Prereq: Chem 100; Biol 112, 201, or equivalent. (3)

### BIOL 338 Organ System Physiology

Selected topics, such as water balance, neurophysiology, endocrinology, in general at the organ/tissue level of complexity. Lectures, student seminars, and term paper. Prereq: Biol 201 and 301 or equivalent. (3)

**BIOL 353 Molecular Biology**

The 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. This course is included in the biotechnology certificate program. Lecture, laboratory, and discussion. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 355 Biochemistry**

This course is included in the biotechnology certificate program. See Chem 355. (5)

**BIOL 358 Cell Biology**

Molecular interactions that provide the foundation for 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. This course is included in the biotechnology certificate program. Lecture, laboratory and discussion. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 360 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, and pollution control. Lab includes: proficient and safe handling of microorganisms, identification of unknown bacteria, and biochemical and microscopic methods. This course is included in the Biotechnology Certificate program. Lecture and laboratory. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 361 Information Technology for the Sciences**

See Chem 361. Prereq: Chem 212. (3)

**BIOL 367 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 interactions, ELISA and the purification of lymphocyte populations. This course is included in the biotechnology certificate program. Lecture, laboratory, and discussion. Prereq: Biol 301 or consent of instructor. (5)

**BIOL 391 Medical Internship**

Off-campus experience at Louis A. Weiss Memorial Hospital. Rotation through four or five medical specialties. At least 12 contact hours. Prereq: Biol 301 or equivalent and approval of the school. (3)

Courses open to graduate students.

**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 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 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 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 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)

## Business Communications

### BCOM 471 The Communication Process

Communication for managers and professionals. Focus on communication theory, preparation of documents and reports, effective oral communication, new technologies, intercultural and ethical issues. (3)

## Chemistry

Courses open to upper-level undergraduate and graduate students.

### CHEM 313 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 321 Physical Chemistry I

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

### CHEM 322 Physical Chemistry II

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

### CHEM 325 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, 321; Chem 322 or concurrent. (4)

### CHEM 337 Analytical Chemistry: Instrumental Analysis

Basic theories and experimental techniques in electrochemistry, spectrophotometry, and chromatography. Laboratory required. Prereq: Chem 202, 212, 321, 322, 325. (5)

### CHEM 341 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. Laboratory required. Prereq: Chem 202, 212, 321 and Chem 322 or concurrent. (5)

### CHEM 355 Biochemistry

Examination of electron transport chain, protein structure, enzyme kinetics, biosynthesis and intermediary metabolism of amino acids, and carbohydrates and lipids. Laboratory required. Biol 301 recommended. This course is included in the biotechnology certificate program. Prereq: Chem 202 and 212. (5)

**CHEM 361 Information Technology for the Sciences**

Methods for finding chemical, biological and biotechnological information. On-line and hard-copy methods will be discussed, with an emphasis on the use of various computer databases and the internet. Databases of the scientific literature, chemical databases and genetic databases will be used. Prereq: Chem 212. (3)

**CHEM 373 Environmental Chemistry**

Connection of basic chemical knowledge to environmental issues in the areas of energy, atmosphere, hydrosphere and biosphere. Study of chemical substances and their impact on the environment: toxicological effects, conversion and spread. Lecture, laboratory and discussion. Prereq: Chem 202, 203, and 212. (5)

**CHEM 381 Polymer Chemistry**

Synthesis, physical and analytical characterization, and use of polymers, including fibers, plastics, coatings, and resins. Morphology and rheology of polymers. Prereq: Chem 212 and Chem 321. (3)

Courses in chemistry open to graduate students.

**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 212. (3)

**CHEM 419 Organometallic Chemistry**

Structure, bonding, and reactions of compounds formed between the metallic elements (primarily d block) and carbon (i.e., 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, 212. (3)

**CHEM 431 Advanced Analytical Chemistry**

Applications of analytical chemistry to chemical, biological, and environmental sciences; recent advances in the field; advanced techniques and applications including mass spectrometry, capillary electrophoresis, x-ray diffraction, supercritical fluid chromatography and extraction, and polymer analysis. Prereq: Chem 337. (5)

**CHEM 453 Molecular Biology**

See Biol 453. (5)

**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

Courses open to upper-level undergraduate and graduate students.

**CST 340 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 341 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 343 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)

Courses open to graduate students.

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. 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 manage-

ment, 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 270 or 280. (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 & 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 352. (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 447 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 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 & 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 & 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 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)



# Economics

Courses open to upper-level undergraduate and graduate students.

## ECON 322 Economics of Environmental Policy

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. (3)

## ECON 363 Mathematics for Economists

Introduction to mathematical tools and techniques that have been utilized in the development of modern Keynesian, Neoclassical, Marxian, and Neocardian economic theories. Topics include the methodology of mathematical economics, sets, functions, matrix algebra, comparative statics, and differential calculus. At every stage of the course, particular mathematical techniques are applied to particular economic theories. A secure understanding of college algebra is presumed on the part of the student as prerequisite for taking this course. (3)

## ECON 370 Economics of the Public Sector

Theory and practice of government involvement in resource allocation and distribution. Cost-benefit analysis. Study of various public policy issues such as medical care, crime, and law. (3)

Courses open to graduate students.

## 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

An MBA course not intended for Economics majors. 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. (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 administration, 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. 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**

Binomial, normal, and other distributions; small and large sample statistical inference; linear regression and correlation; and introduction to simulation. 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 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 303 Health for Educators**

Programs and curriculum intended to help students better understand both their own health needs and those of early childhood, elementary and secondary school students. Topics include substance abuse, nutrition, and safety. (3)

**EDUC 313 Foundations of the Middle School**

Emphasis on the historical, social and philosophical foundations of middle level education. Includes 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 315 Adolescent Development**

Study of the physical, cognitive, social and emotional development during adolescence. Special topics are studied, including the application of developmental principles to the middle school and high school students. (3)

**EDUC 319 Exceptional Children and Youth**

Overview of all types of exceptionality. Fulfills requirements of Illinois House Bill 150. Exceptional characteristics of students with mental, physical, or emotional disabilities and the special instructional programs, practices, and facilities that can be used to help them realize their potential more fully. Requires 25 clock hours of field experience. (3)

**EDUC 321 Creative Arts in Education**

Methods and attitudes conducive to development of creative artistic interests and skills in children. Integration of music, art, movement and dramatics into the curriculum. (3)

**EDUC 352 Topical Workshop**

Topics of special interest to educators offered in workshop setting. Areas of recent concentration have included multicultural education and seminars in reading that featured attendance at annual meetings of International Reading Association. (1-6)

**EDUC 385 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, with a focus on using technology for problem solving. Prereq: familiarity with basic computer applications. (3)

**EDUC 390 Assessment in Special Education**

Designed for students with introductory skills in test and measurements. Emphasis is placed on increasing skills of test users in making selection, classification and placement decisions, and in using various techniques for evaluation of the progress of individuals

in special programs at all levels. Experience in administering, scoring, evaluating, and reporting test results. Students are taught to convert diagnostic information to prescriptions that may be used by multidisciplinary and/or ancillary personnel and parents, as well as by teachers of IEP purposes. Prereq: Educ 319 or consent of instructor. (3)

#### EDUC 392 Characteristics and Methods for Teaching Students with Mental Retardation

Characteristics, basic aspects of curriculum, major objectives of instruction, and specific methods and materials relating to teaching students with mental retardation at the preschool, primary, intermediate, advanced, and work-study levels are studied. Preparation of the Individualized Education Program (IEP) is stressed. Evaluation techniques are considered. Students are required to become acquainted with recent research in curriculum and methods for the mentally disabled. Prereq: Educ 319 and Educ 390. (4)

#### EDUC 393 Characteristics and Methods for Teaching the Student with Behavior Disorders

Identification and interpretations of emotional and behavioral disorders to provide for educational needs of children exhibiting such behaviors. Alternative sources of help, techniques of classroom management, and applications of recent research. Prereq: Educ 319 and Educ 390. (4)

#### EDUC 396 Characteristics and Methods for Teaching the Student with Learning Disabilities

Provides information leading to an understanding of characteristics of learning disabilities. Seeks to develop the student's ability to translate these principles into sound educational practices for the remediation of learning disabilities. Prereq: Educ 319 and Educ 390. (4)

#### 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 roles of school, counselor, and teacher. (3)

#### EDUC 420 Advanced Topics in Teaching Composition: Designing Inservice

Series of one- to three-semester-hour courses each focused on a special issue in the teaching of writing. Theoretical underpinnings, observational data gathering, and examination of classroom implications. Assignment design, teacher-student conferences, small-group approaches, revision, and evaluation. (1-3)

#### EDUC 432A Seminar I: Becoming a Master Teacher

National Board candidates begin the process of National Board Certification. Development of reflective practice and in-depth analysis of student work, analysis of the teacher's contribution to the profession through collegial work with staff and community outreach to parents and others. (3)

#### EDUC 432B Seminar II: Becoming a Master Teacher

National Board candidates continue the rigorous process of National Board Certification. Continued reflective practice with focused analysis and written description of student work, analysis of the student's practice through videotaped lessons, and the completion of all entries for the candidate's portfolio. (3)

#### EDUC 432C Seminar III: Becoming a Master Teacher

National Board candidates continue the rigorous process of National Board Certification. Preparation for the assessment center exercises which require the candidate's in-depth knowledge of the content area. (3)

#### EDUC 432D 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)

#### EDUC 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)

## EDUC 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)

## EDUC 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)

## 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 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)

## EDUC 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)

## 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 461 Identification and Characteristics of Gifted and Talented Students

Nature of giftedness and talent in young and elementary-age children. History of the gifted education effort in the US and overview of philosophies of educating gifted and talented students. Research into the areas of talented and gifted education; diagnostic instruments for the measurement of intelligence and identification of giftedness. (3)

## EDUC 462 Methods and Materials for Teaching Gifted and Talented Students

Students learn to make informed curricular and instructional choices in meeting the learning needs of the gifted child. Curriculum theory and models of teaching gifted students; literature on research-based approaches to gifted education. Constructivist learning practices and how they can be aligned with other tools. Innovative instructional strategies that promote cooperative learning, authentic assessment, and tools for promoting the development of higher order thinking and multiple intelligences. (1)

## 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 phenomenon 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 482 Foundations in Writing Instruction

Recent theory and research on writing process, students' growth, and related influence of teacher roles. Theory tested through observation of participants' own writing. Implications for pedagogy across the curriculum and grade levels. (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)

#### EDUC 499 NonWestern Perspectives in the Classroom

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

## Education: Counseling and Human Services

Written permission of the assigned advisor is required for admission to any course in counseling and human services.

#### CHS 405 Statistics and Research Methods: Counseling

Research methods, statistical analysis, needs assessment, and program evaluation; methods of evaluating the counseling process and program effectiveness. Review of descriptive statistics; study of inferential statistics; fundamentals of writing the research report; legal and ethical standards. (3)

#### CHS 411 Social and Cultural Foundations

Sociological studies on the cultural context of relationships, issues, and trends in a multicultural and diverse society. 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, couples, families, ethnic groups, and

communities. Studies also include interpersonal communication among staff, schools, and community. (3)

#### CHS 413 Foundations of Counseling

Philosophical foundations of counseling with concentrated study of counseling theories; historical overview of the counseling profession. Diversity issues relevant to counseling theories and student's personal philosophical and theoretical beliefs. The professional role identity of counselors, including credentialing, licensure, professional organizations, and ACA ethical standards. (3)

#### CHS 414 Seminar in School Counseling

Elementary and secondary school counseling including the school environment. School counseling knowledge and skill competencies including historical perspectives, theory, trends, purposes, ethical, and legal considerations. Special school counseling skills include chemical dependency, sexuality, and family issues. Emphasis on counseling a diverse student population. Clinical experience required. (3)

#### CHS 416 Human Appraisal

Techniques of appraisal including objective tests, observations, and other assessment instruments. Diversity issues related to assessment. Functions and limitations of major methods of evaluating intelligence, aptitude, achievement, personality, sensory perception, and motor development. Measurements of central tendency, variability, correlation and laboratory experiences in the administration and interpretation of tests. (3)

#### CHS 417 Career and Life Style Planning

Role of the counselor in utilizing occupational/vocational, educational, personal, and social information. Major areas of theory, occupational trends, information sources, techniques for local occupation surveys, scholarship information. 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 423 Community Mental Health Counseling

Role of counselor in emerging, multifaceted, human service approach to community counseling. Relationship between individual and community development. Concept of outreach and prevention together with interfacing aspects of prevention and remediation models of mental health. Skills in developing experiential and environmental programs. Prereq: Chs 413. (3)

#### CHS 425 Seminar in Research and Current Counseling Issues

Culmination of the statistical and research sequence. Seminars on current research topics in counseling. ACA code of ethics studied via case vignettes. Research methodology reviewed; written research proposal required. Prereq: Chs 405, 416. (3)

#### CHS 426 Pre-practicum: Theories and Interventions of Counseling

Demonstration and role playing 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

Individually supervised clinical practice field experience in agencies. 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

Supervised practice in school counseling at elementary and secondary levels. 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 457 Topics and Issues in Human Development

Theory and research in human development; educational implications from perspective of learner and practitioner. Study sequence based on various stages of life span. Interrelation of cultural, biological, and environmental variables as they influence development. Emphasis on special role of counselor. (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 474 Clinical Biofeedback

Theoretical, research, and technical overview of clinical biofeedback. Emphasis on integrating physiology, learning theory, and biofeedback. Biofeedback as treat-

ment 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 490 Thesis

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

#### CHS 494 Internship III: Mental Health Counseling

A minimum of 300 clock hours of supervised experience under the direct supervision of a qualified mental health professional. Experiences to include assessment, diagnosis, and treatment of mental and emotional disorders and dysfunctional behavior. Focus on principles and practices for the promotion of optimal mental health.

Prereq: Chs 497, 499. (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 experiences. 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)

## Education: Early Childhood

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

#### ECHD 401 Child Study

Introduction and review of current theories and methodologies for child study from birth through age eight. Each student conducts a specific child study project. (3)

#### ECHD 405 Assessment in Early Childhood

Introduction to early childhood measurement and assessment techniques. Fundamentals of psychometric theory; review of commonly used standardized tests and classroom evaluation techniques. (3)

#### ECHD 409 Child, Parent, and Community

Consideration of parent 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 primary grades. Requires 25 clock hours of field experience. (3)

#### ECHD 434 Language Development

In-depth study of theory and research in language development. Theoretical framework for the development of language. (3)

#### ECHD 437 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 210 for undergraduates or Educ 407 for graduate students. (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/ kindergarten settings. Students design and implement curriculum plans, assess progress of individual children and the group, and demonstrate understanding of role of family and community in child's education. Weekly seminar discussions focus on educational setting, teaching strategies, and individual problems. Prereq: all methods and field experience courses, 100 clock hours of field experience, and written consent of instructor. (4)

#### ECHD 475 Student Teaching in Early Childhood

**Education: Primary**

Supervised observation and teaching in primary grade settings. Students design and implement curriculum plans, assess progress of individual children and the group, and demonstrate understanding of the role of family and community in child's education. Weekly seminar discussions focus on educational setting, teaching strategies, and individual problems. Prereq: all methods and field experience courses, 100 clock hours of field experience, and written consent of advisor. (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: Echd 319, Educ 407, or equivalent. (3)

**ECHD 482 Early Intervention Techniques**

Skills necessary for working with high risk young child; principles underlying curriculum, appropriate methods, suitable materials, and evaluative techniques; development and implementation of Individualized Educational Program (IEP) with young children. May include 35-50 clock hours of field experience as individually indicated. Prereq: Echd 305, Educ 319, Echd 481 or equivalent, and 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 408 Foundations of Teaching**

Open only to META students. Content, philosophy, and sociology of instructional methods integrated with the social, psychological, and cognitive aspects of child development. Computer literacy infused throughout the program. Five full days are spent in the schools as a cohort. School observation dates are specified the first night of class. (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 inclusion of students with special needs. Lesson planning and assessment in relation to the integration of instruction in language arts, math, and science. 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. Formal study of educational philosophy and curriculum structure and continuing work in instructional methods and classroom management. Completion of an integrated social studies unit. Five full days are spent in schools. Prereq: Eled 408, 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 12-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 this course 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 385 Technology in the Classroom

See EDUC 385. (3)

## READ 401 Language and Linguistics

Current psycholinguistic theory and research on

language acquisition, sociolinguistics, and the role of phonology, semantics, syntax, and pragmatics in oral communication; emphasis on implications for teaching. (3)

## READ 402 Theory and Research in Literacy

Current theory and research on emergent literacy, the relationship of oral language and cognitive development to learning to read and write, cultural influences on literacy acquisition, and issues in reading comprehension research and pedagogy. (3)

## READ 403 Instructional Strategies for Literacy for Diverse Populations

Learner-centered approach to literacy development particularly for students of diverse language and cultural heritages. Theory and research in literacy development that demonstrates reading and writing to learn in all of the content areas. Cooperative and problem-based learning; journals to engage with text; curriculum integration; promotion of critical thinking skills; and integration of arts strategies to engage and deepen understanding. (3)

## READ 404 Evaluating Literacy Programs and Students: Issues, Tools, and Techniques

Alternate ways to analyze the quality of school literacy programs and to assess student reading and writing; rubrics for evaluating extended responses to reading; authentic assessments such as portfolios to stimulate self-evaluation, reflection, and goal-setting. Alternate valid methods of summative assessment including analytical scales, holistic or general impression marking, and ways to achieve inter-rater reliability. Interpretation of norm-referenced and performance-based scores as evidence of student learning. (3)

## READ 405 Professional Leadership in Literacy

Research-sensitive staff development practices. Preparation for leadership roles in schools and school districts to improve instruction in literacy in K-12 classrooms for diverse populations. Establishing a climate conducive to change, inviting commitment, and establishing one's authority as a professional. Analysis of a school's culture; development of effective inservice workshop techniques; design of informal staff development activities. (3)

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 430 Young Adult Literature

Intensive study of critically acclaimed and popular texts for teen audiences. The historical emergence of the genre; multiple readings through a various critical lenses; integrating young adult literature into middle school and high school curricula. (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 Holistic 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 452 Topical Workshop

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

READ 461 A Holistic Approach 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 Language and Literacy in 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. (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. (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 481 Advanced Topics in Teaching Composition: Designing Inservice

Methods of engaging adult learners in workshop activities that foster insight and model exemplary classroom practice in the development of writing fluency, craft, and style. Assignment design, teacher-student conferences, and ways to stimulate and focus small-group interactions. (1-3)

READ 482 Foundations in Writing Instruction

Recent theory and research on writing process. Students' growth, and related influence of teacher roles. Theory tested through observation of participants' own writing. Implications for pedagogy across the curriculum and grade levels. (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 321 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. (3)

SEED 322 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. (3)

SEED 323 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. (3)

SEED 324 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 of, including courses, units, activities and learning experiences. Focus on grades 6-12. (3)

SEED 326 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. (3)

SEED 327 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. (3)

SEED 332 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. (3)

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 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)

## **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 Sociology of Education**

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 in Schools and Social Policy

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 and the governance of public schools. 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. (3)

#### 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 596 Student Affairs Administration and Student Development

Theory and practice of student affairs administration in selected post-secondary settings. Student development theory in the context of student affairs administration practice. Prereq: admission to the EdD program. (3)

#### ELOC 597 History, Organization, and Operations of Higher Education

Historical analysis of higher education in the US. Review of organizational theories to analyze collegiate structure, decision making, leadership, culture, and change. Prereq: admission to the EdD program. (3)

#### ELOC 598 Strategic Planning and Marketing in Higher

#### Education

Social, economic, and political characteristics of communities; marketing theory, marketing planning, public relations and communication theory; mass media and community relations, conflict resolution and school community relations. Prereq: admission to the EdD program. (3)

#### ELOC 599 Human Resources, Finance, and Fund-raising in Higher Education

Fundamentals of human resource management, finance and fund-raising principles in higher education; resource distribution and competing interests. Prereq: admission to the EdD program. (3)

#### ELOC 600 Instructional Leadership and Curriculum Innovation in Higher Education

Tasks of personnel management in higher education including recruitment, selection, orientation, development, compensation, and evaluations. Focus on attracting and retaining a high quality workforce. Prereq: admission to the EdD program. (3)

#### ELOC 661 Program Evaluation for Educational Leaders

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)

## 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

A study of 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 gender and film, 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

Further development of 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 connection between 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 preparing their compositions for public reading, submission, and publication. Writers will be encouraged to compile individual poems into unified collections. 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 Nonfiction Writing

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

## ENG 434B Nonfiction Writing 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 Nonfiction Writing III

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

## ENG 437 Screenwriting

Students produce a full-length screenplay in a workshop atmosphere. Techniques used by professional screenwriters to create complex characters, thrilling action, and original plots. Some attention to marketing the screenplay, including the treatment and pitch. Prereq: Eng 406 or 407 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 Internship**

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

**ENG 484 Internship in the Community**

Student uses writing and/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 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 chair. (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 chair. (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

Courses open to upper-level undergraduate and graduate students.

**ENVS 314 Introduction to Geographic Information Systems (GIS)**

See Geog 314. (3)

**ENVS 330 Wetlands Delineation**

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. See also Biol 330. Prereq: Biol 112 or 201 and Chem 100 or 101. (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, Econ 403, Mgmt 403. (3)

### FIN 454 International Financial Analysis

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 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, department chair, 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)

## Geography

Courses open to upper-level undergraduate and graduate students.

### GEOG 314 Introduction to Geographic Information Systems (GIS)

Computer collection, use, and display of geographic data. Focus on 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)

GEOG 344 World Resource Management and Conservation

Distribution, use, and interrelationship of natural resources in various world regions; conservation techniques of natural resources; problems of public policy related to their efficient management. Prereq: Econ 101 or consent of instructor. (3)

## History

Courses open to upper-level undergraduate and graduate students.

HIST 301 The Society and Culture of Medieval Europe

Structure and dynamics of social, cultural, and political institutions in Western Europe from later Roman Empire to mid-13th century. (3)

HIST 315 Latin America: From Conquest to Independence

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

HIST 316 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 326 Topics in American Social History

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

HIST 366 The Holocaust in Historical and Philosophical Perspective

The background, causes, events, impact, and implications of the destruction of the Jews in Europe. Discussion of vital issues from a wide variety of readings. May be used to fulfill the senior seminar. (3)

HIST 371 Modern and Contemporary Africa

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

HIST 377 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. May be used to fulfill the senior seminar. (3)

HIST 382 Black Chicago's History and Culture Since 1960

How African Americans in Chicago have changed their status since the advent of the modern civil rights era. Resurgent movements in politics, protest advocacy, economic empowerment, and culture. (3)

Courses open to graduate students.

HIST 401 Introduction to Graduate Studies

Tools for beginning researchers in history, women's studies and English. 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. Wide variety of readings, extensive hands-on work with library resources, field trips, and guest speakers. (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 1973

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 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: From Conquest 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 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. Prereq: Hist 106 or 107. (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; and beginning 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 preconditions 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 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 De-



mocracy; importance of slave labor and wage labor as cores of the market economy; religious-based reform; countervailing influences of nationalism and sectionalism. (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 482 Black Chicago's History and Culture Since 1960

How African Americans in Chicago have changed their status since the advent of the modern 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 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 system). (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 Resources 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 410 Labor-Management Relations in the Arts

History of the labor movement in the US and resulting legislation. Emphasis on unions in the performing arts and their economic impact. Chicago union and management personnel will participate in class meetings. Simulated negotiations involving class teams. Prereq: Mgmt 410. (3)

#### HRM 420 Human Resources and Career Planning

See Trdv 420. (3)

#### HRM 428 Workplace Diversity

See Trdv 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 con-

sistent 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 department 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 director 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, and evaluation of system performance. Prereq: Infs 440. (3)

**INFS 451 Decision Support Systems**

Role of information system in assisting management decision making in all functional areas of organizations. Prereq: 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 director, 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 IMC advisor is required before enrollment.

**IMC 401 Strategic Decisions in Integrated Marketing Communications**

Introduction to IMC emphasizing marketing fundamentals and the importance of marketing information to the strategic decision-making process. Focus on primary research tools including surveys and focus groups; secondary research; and applications including new product development, competitive analysis, message appeals, customer satisfaction, and campaign evaluation. Use of new technologies in marketing research and communication. Prerequisite to all other IMC courses; Imc 409 may be taken concurrently. (3)

**IMC 409 Advertising and Sales Promotion**

Overview of all marketing communications tools including paid media advertising, direct marketing and Internet, consumer and trade sales promotion, public relations, event marketing and personal selling. Emphasis on the customer perspective in developing effective selling messages for any audience. 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

Development of model for communications research; examination of advertising research techniques, including copy and media research and syndicated services used by marketers in consumers, business-to-business, and direct marketing campaigns; computerized databases and Internet. 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. (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. (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

Developing input to the creative process; identifying product benefits, target audiences, competitive factors, behavior patterns, message objectives. Idea generation and copywriting. Evaluating creative messages. Developing creative messages to meet strategic objectives. Prereq: Imc 401, 409. (3)

## IMC 447 Visual Communications and Graphics

The application of drawing, painting, photography, cinematography, and computer graphics to marketing communications. Fundamentals of design, color, layout, typography and production. Artist-writer collaboration on advertising campaigns, brochures, catalogs, annual reports, billboards, videos, web pages and television commercials. Prereq: Imc 401, 409. (3)

## IMC 448 Writing for Newsletters

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

## IMC 450 Direct Marketing Management

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. (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, 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 471 Public Relations**

Importance of public relations to product marketing and corporate credibility. Practical analysis and development of materials used to generate reaction and support from targeted audiences. Techniques appropriate to IMC programs, such as print and video news releases, press kits, spokesperson press tours, and feature stories. Planning and preparation of communications materials. Evaluation of program results. Prereq: Imc 401, 409. (3)

**IMC 472 Trade Shows, Promotions, and Events**

The role of trade shows in building distribution and supporting sales goals. Building traffic at the exhibitor's booth, qualifying prospects, building a database and sales follow-up. The use of promotions and events including marketing partnerships and co-op advertising. Prereq: Imc 401, 409. (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, 450, and Internet literacy. (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, 446, 447, 450, 452, 453, 471, or advisor's consent. (3)

**IMC 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, including Internet and intranet applications; fundamentals of Web site design and multimedia presentations. Prereq: Imc 401, 409. (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 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 at the end of the 20th 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 412 Journalism and Society

Relationship of media and society seen through study of such information sources as government, business, education, and other institutions; special emphasis on ethics of reporting. 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 Nondaily and Ethnic 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 Communications Law

First Amendment rights and responsibilities; laws of libel and slander; legal access of public meetings and documents; restrictions on print and broadcast media.

Prereq: Jour 405. (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. Prereq: consent of director. (3)

## JOUR 480 The Journalism Project

Capstone course; students develop a substantial project in the area of career focus. Career preparation, portfolio development, presentation. 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. 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. Prereq: consent of director. (3)

## JOUR 493 Practicum

Designed for students who cannot complete traditional



internships or who desire advanced training in addition to 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; and rules governing 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 new client file, fee agreements, and a law office memorandum. (3)

#### LAWA L02 Legal Research

Basics of legal research; research tools of the law library; proper citation to the various legal authorities. Working in the area of tort litigation, students learn how to read, analyze, and apply the law. Emphasis on legal reasoning; how to develop logical and practical legal arguments. Online research using both a computerized legal database and the Internet. (3)

#### LAWA L03 Civil Law

Fundamentals of the law relating to civil practice. 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; legal research; how to evaluate the strengths and weaknesses of a case; litigation strategy. Administrative remedies and procedures. Methods and means to gather and preserve evidence for use at trial. How to summarize depositions, prepare and respond to written discovery, and review documentation. Federal and Illinois Rules of Civil Procedure and local court rules. (3)

#### LAWA L05 Commercial Law

Fundamentals of laws relating to business; emphasis on the law of contracts and on the 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. "100 Days before Trial." Final trial preparation including exhibits, subpoenaing and contacting witnesses, preparing witnesses for testimony, trial briefs, motions to exclude evidence (motions in limine), and jury instructions. Note taking at trial. Post-trial procedures including motions and enforcement of a judgment. (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. (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 410 Cultural, Economic, and Managerial Environment of the Arts

Historical development of the performing and visual arts from an organizational viewpoint and their place in the cultural life of the US. Emphasis on the economics of the arts, effective allocation of resources, and interaction between economic necessities and artistic goals. (3)

#### MGMT 412 Legal Environment of the Arts

Legal aspects of the arts beginning with basic law of contracts. Topics include copyright, royalties, and legislation that affects contributions, slander, libel, and invasion of privacy. Contracts common in the industry. Prereq: Mgmt 410. (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 431 Management Science

Quantitative models for managerial decision making. Topics include resource allocation, waiting lines, scheduling, and transportation. Optimization and heuristic models. Prereq: Mgmt 403. (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 460 Team Building and Leadership Skills

See Trdrv 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 supervising faculty member, department chair, and dean. (1-3)

MGMT 499 Internship in the Arts

One-semester internship with a Chicago-based

institution arranged under the supervision of the arts management director. For arts management students not currently working with a performing or visual arts organization. Prereq: consent of program chair. (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 410 Marketing and Development in the Arts

Audience development, education, and outreach activities; ticket sales including subscription campaigns; public relations, publicity, and the development of strategies for effective fund-raising. Prereq: Mgmt 410. (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, 426, 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 452 or 406. (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, department chair, and dean. (1-3)

## Mathematics

Courses open to upper-level undergraduate and graduate students.

**MATH 316 History of Mathematics**

How various ideas in mathematics were introduced and developed over the centuries. Readings and essays on various topics; discussions of relevant mathematical methods. Prereq: Math 231. (3)

**MATH 317 Geometry**

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

**MATH 318 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 320 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 330 Numerical Analysis**

Solution of equations by iteration; interpolation;

numerical differentiation and integration; numerical solutions to linear systems. Computer use course. See Cst 330. Prereq: Math 232, Math 300, and one programming course. (3)

**MATH 332 Operations Research**

Stochastic methods in operations research. Queueing theory; Markov processes; decision analysis; simulation; stochastic dynamic programming. Computer use course. Prereq: Math 231 and Math 217 or Math 341. (3)

**MATH 341 Probability I: Discrete Distributions**

Probability models; discrete random variables; discrete distributions; moment generating functions of discrete random variables; simulation; Poisson processes; and queueing theory. Prereq: Math 231. (3)

**MATH 342 Probability II: Continuous Distributions**

Continuous random variables; continuous distributions; moment generating functions of continuous random variables; multivariate distributions; and applications. Prereq: Math 233 or concurrently and Math 341. (3)

**MATH 343 Statistical Theory and Methodology**

Sampling distributions and the Central Limit Theorem; point estimators and confidence intervals; hypothesis testing; and elements of analysis of variance and regression theory. Prereq: Math 342. (3)

**MATH 350 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 Cst 350. Prereq: Cst 250, Math 245, and Math 231. (3)

**MATH 369 Actuarial Mathematics I**

Survival distributions and life tables; life insurance; life annuities. Prereq: Math 269 or concurrent, Math 342. (3)

**MATH 370 Actuarial Mathematics II**

Benefit premiums; benefit reserves; multiple life functions; multiple decrement models.

Prereq: Math 369. (3)

Courses open to graduate students.

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 427 Combinatorics

Permutations and combinations; identities involving binomial coefficients; inclusion-exclusion principle; recurrence relations; generating functions; introduction to the theory of graphs. Prereq: Math 232, 245. (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 435 Topics in Applied Mathematics

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

MATH 446 Stochastic Processes

Poisson and renewal processes. Markov chains with applications to queuing theory, inventory control, and population growth.

Prereq: Math 342. (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 343. (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  $2^n$  factorial systems. Prereq: Math 217 or 342 or Econ 234 or Psych 407 or Mgmt 403. (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 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 343 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

Courses at the 300 level apply toward graduation only if they do not repeat the student's undergraduate work and are not prerequisites toward the undergraduate degree.

## Music: Applied Music

Individual lessons and private instruction. All graduate courses in applied music are scheduled through private lessons. Students should request descriptive outlines for specific courses from the department chair. During a summer term, credit is usually limited to a maximum of three semester hours for applied music courses. The numbering below is the same for all graduate courses in performance subjects in the various departments.

Applied Music 301-309, 371-379 Minor Study, Advanced Level

Intensive study with special emphasis on each student's respective graduate curriculum. Thirty-minute private lesson per week for each course. Prereq: audition. (2)

Applied Music 401-410 Minor Study for Qualified Nonperformance Majors

Intensive study with special emphasis on each student's respective graduate curriculum. Thirty-minute private lesson each week for each course. Prereq: Applied Music 301 and audition by respective performance department. (2)

Applied Music 411, 412, 413 Major Study

Intensive study of style and development of major repertoire. Preparation for public performance. Thirty to ninety minutes of private lessons each week. Prereq: audition. (2-6)

Recital

Credit for this course is given upon satisfactory performance of public recital at Roosevelt University. Prereq: minimum of eight semester hours of graduate-level vocal or instrumental applied music study with grades of A or B. (2)

Applied Music 451-454 Diploma Study

Intensive study of advanced literature. Prereq: consent

of department. (4-8)

Artist Diploma Recital

Credit awarded upon successful completion of full public program. Prereq: consent of Artist Diploma Committee. (2)

Applied Music 471, 472, 473, 474

Intensive study of the jazz language for instruments or voice, including performance in all related styles of music from 1920 to the present. Development of advanced technique and creativity. Thirty-minute private lesson each week. Prereq: consent of department (2-4)

## Music: Education

ME 410 Seminar and Practicum in Classroom Teaching

For students in the MUSARC program. Weekly seminars relating to specific problems and issues encountered in music teaching to assist in the mentoring of probationary teachers. Concurrent with first teaching placement. Includes minimum of five onsite visits at teaching site. (3-5)

ME 451 Instrumental Group Study: Brass

For students in the MUSARC program. Intensive study of basic playing techniques and pedagogy of brass instruments. (1)

ME 452 Instrumental Group Study: Woodwinds

For students in the MUSARC program. Intensive study of basic playing techniques and pedagogy of woodwind instruments. (1)

ME 453 Instrumental Group Study: Strings

For students in the MUSARC program. Intensive study of basic playing techniques and pedagogy of string instruments. (1)

ME 454 Instrumental Group Study: Percussion

For students in the MUSARC program. Intensive study of basic playing techniques and pedagogy of percussion instruments. (1)

## ME 485 Teaching Methods/Field Observation

For students in the MUSARC program. Intensive course in organization and operation of public school music programs. Development of a personal teaching philosophy, scheduling, standards-based education, issues and trends, skills and methods appropriate for music instruction in the elementary, middle school, high school, and special education settings. Includes field observation. (8)

## Music: Ensemble

## ENS 381 Graduate Ensemble Participation

Supervised ensemble performance culminating in public recital or concert. May include participation in large ensemble. May be counted toward degree in accordance with departmental requirements. Prereq: approval by department chairperson. (1)

## ENS 463 Concerto Performance

Performance by memory of a major concerto with orchestra. Required of all Artist Diploma Program students. Prereq: consent of Artist Diploma Committee. (1)

## ENS 464 Chamber Music

Full program consisting of at least two major works or the equivalent. Required of all Artist Diploma Program students. Prereq: consent of Artist Diploma Committee. (1)

## Music: History and Literature

## MUHL 323 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. A substantial research paper is required. (3)

## MUHL 326 Studies in the Literature and Performance of Early Music

Selected topics in music before 1750, in-depth exploration of selected repertoires, historically correct performance practices; aspects of early notation.

Prereq: Muhl 251. (3)

## MUHL 330 Keyboard Literature

Survey of literature for stringed keyboard instruments; emphasis on music for pianoforte, 1700 to present. Prereq: Mutc 222 and Muhl 251-253. (3)

## MUHL 331 Special Topics in Vocal Literature

Survey and style analysis of solo song literature. Topic varies by semester; course may be repeated for credit. Prereq: Mutc 222 and Muhl 252. (2)

## MUHL 337 Orchestral Literature I

Stylistic and structural survey of symphonies, concertos, suites, overtures, and other orchestral works from circa 1730 to 1900. Prereq: Mutc 222 and Muhl 252-253. (3)

## MUHL 338 Orchestral Literature II

Stylistic and structural survey of symphonies, concertos, suites, overtures, ballet music, and other orchestral works from circa 1900 to the present, including electroacoustic and/or improvisatory compositions and chamber orchestra works. Prereq: Muhl 337. (3)

## MUHL 340 Music of Today

An examination of current trends in late modern and post-modern music. Prereq: Mutc 222. (2)

## MUHL 341 Organ Literature

Historical development of the organ and organ music through Baroque period. Survey and analysis of representative composers' works. Performance in class. Prereq: Mutc 221 and Muhl 251. (3)

## MUHL 345 History of Opera

Development of opera from its inception to the present. Concentration on major works in each era. Prereq: Muhl 251-253. (3)

## MUHL 366 World Music

Folk and traditional music. NonWestern classical music. Music in its cultural contexts: religion, society, history. Prereq: Mutc 222. (3)

**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 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 359 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 375 Introduction to Piano Pedagogy**

Introduction to basic ideas of teaching; intensive



study of the teaching of elementary-level children at the piano; in-depth examination of current method books and elementary-level supplementary materials; leveling criteria; history of piano pedagogy; in-class presentations and micro-teaching; weekly observations and supervised weekly teaching of an elementary-level child. No credit toward MM degree. Prereq: consent of instructor. (3)

#### 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 421 Seminar and Internship in Piano Pedagogy

Planning and development of college and leisure curricula for adult students at the elementary and intermediate levels in private and group settings; teaching techniques that promote musical comprehension and physical security; electronic laboratory techniques. In-class presentations and micro-teaching. Internship consists of biweekly observation of piano classes and supervised teaching of an adult student. Must be taken concurrently with Mpe 431. Prereq: consent of instructor. (2)

#### MPE 422 Seminar and Practicum in Piano Pedagogy

Teaching techniques appropriate for early advanced levels; continued study of group piano settings; intensive study of piano pedagogy source readings. In-class presentations and micro-teaching. Practicum consists of biweekly assistant teaching of piano classes and weekly teaching of a private adult student. Must be taken concurrently with Mpe 432. Prereq: Mpe 421. (2)

#### MPE 431 Graduate Seminar in Piano Literature I

Study and analysis of literature and materials appropriate for elementary, intermediate, and early advanced level adult students. Survey of group piano methods and supplementary materials. Must be taken concurrently with Mpe 421. Prereq: consent of instructor. (2)

#### MPE 432 Graduate Seminar in Piano Literature II

Continuation of Mpe 431 with emphasis on early advanced level adult students. Final project is a public lecture-recital. Must be taken concurrently with Mpe

422. Prereq: Mpe 431. (2)

#### MPE 459 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)

#### 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)

## Music: Performance

#### PERF 310 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 316 Opera Theater

Formal operatic character study and audition workshop for advanced undergraduate and graduate students. Coaching and staging of scenes and arias or complete works, culminating in a public performance each semester. Prereq: Voi 214 or graduate standing and one year of Perf 216. (1-3)

#### PERF 381 Vocal Coaching

Individual work on selected advanced literature in opera, art song, or oratorio for graduate voice majors. Weekly presentation within master class setting. May be repeated for credit. Prereq: audition. (2)

#### PERF 401-403 Advanced Study and Performance of Orchestral Excerpts

For orchestral studies majors at the master's level. In-

tensive study of technically and musically demanding orchestral excerpts with emphasis on preparation for professional auditions. Prereq: consent of department. (2)

#### PERF 405 Orchestral Audition Jury

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. (1)

#### PERF 408 Graduate Seminar: Comprehensive Review

Summary and synthesis of major historical, analytical, and stylistic studies for performance and performance/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 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 orchestral studies majors at the diploma level. Public performance in a recital setting of approximately 45 minutes of music selected by the student and approved by the major teacher and artistic director. Program may consist entirely of solo literature or may be a combination of solo works and appropriate orchestral excerpts. Prereq: consent of department. (2)

## Music: Theory and Composition

#### MUTC 300 Baroque Counterpoint

Baroque contrapuntal forms and technique with emphasis on works of Bach. Analysis and written exercises. Traces influence and application of 18th-century contrapuntal practice to later musical styles. Prereq: Mutc 222. (3)

#### MUTC 301 Instrumentation/Orchestration

Study of orchestral instruments, their characteristics and technical capabilities. Analysis of traditional and contemporary orchestral and chamber music; orchestral techniques. Readings of students' orchestrations in class.

Prereq: Mutc 222. (3)

#### MUTC 308 16th-Century Vocal Polyphony

Study of contrapuntal practice based on the sacred music of Palestrina and other late 16th-century composers. Emphasis on practical exercises. Prereq: Mutc 222 and Muhl 251. (3)

#### MUTC 311-316 Composition V-IX

Private lessons and seminar. Emphasis on students' original work. Prereq: Mutc 212 or preceding course in sequence. (2-4)

#### MUTC 371 Electroacoustic Music I

Development of techniques in electroacoustic music composition and performance. Lab work required. Prereq: Mutc 171 or consent of instructor. (3)

#### MUTC 380 Acoustics for Musicians

Introduction to physics of sound and tunings, acoustical properties of musical instruments and rooms, physiology of hearing, and psychophysics of sound. Prereq: Mutc 222. (3)

#### MUTC 389 Music Theory Overview

Intensive course covering principles of basic theory, contrapuntal manipulations, and their relationships 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 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)

**Performance**

(See: Music: Performance)

**Physics**

Courses open to upper-level undergraduate and graduate students.

**PHYS 322 Optics**

Lecture and experiments in geometrical and wave optics; lasers. Prereq: Phys 365 or 366 or concurrent. (3)

**PHYS 365 Applied Analog Electronics**

Implementation of solid state analog devices in electronic circuits, especially op-amps, and the analysis of such circuits. Lectures and laboratory. Prereq: Math 121. (3)

**PHYS 366 Applied Digital Electronics**

Implementation of TTL small- and medium-scale digital integrated circuits. Lectures and laboratory. Prereq: Math 245 or consent. (3)

**Political Science**

Courses open to upper-level undergraduate and graduate students.

**POS 301 Introduction to Public Administration**

Overview of field and profession of public administration. Survey of social and historical environment of public agencies. (3)

**POS 306 Political Development and Developing Nations**

Survey of modernization, development, and political, economic, and social change. Relation between domestic development and international factors using specific case studies. (3)

**POS 313 Western European Politics**

Political traditions, institutions, and mass movements of major European powers, including Great Britain, France, and Germany. Development of the European community. (3)

**POS 316 Latin American Politics**

How Latin America and the US evolved along different historical paths politically, socially, and culturally; how the Latin American pattern shapes and constrains Latin American governments in the present. Common

issues in Latin American politics and how different countries have addressed these issues. (3)

#### POS 322 American Political Thought

Political ideas of selected American thinkers at critical moments in American history; relationships between their thoughts and the actions they supported. (3)

#### POS 324 Politics and Literature

Works of literature that explore significant political themes, such as alienation, revolutionary movements, utopias, and antiutopias and the development and expression of political, social, economic, religious, and philosophical ideas. (3)

#### POS 329 Philosophy of Law

Philosophic issues and theories concerning law, judicial process, justice, liberty, responsibility, and punishment. Prereq: one course in philosophy and one course in political science. (3)

#### POS 338 Internships in Politics and Law

Students work in Chicago-area political and legal organizations. Required paper based on relevant readings and analysis of work experiences. Early consultation necessary to arrange appropriate placement. (3)

#### POS 341 Gender, Law and Politics

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

#### POS 352 Politics and Film

Fundamental principles of political communication through film. Movies, their themes, and the methods they employ to construct political reality. The artistic and technical aspects of film; politics of the film industry. (3)

#### POS 354 Middle East Conflict

Political institutions, ideologies, social structure, political elites, political culture, and process in Middle East. Emphasis on current inter-Arab conflicts and Israel-Arab confrontation, including Palestinian issue. (3)

#### POS 360 Modern History and Politics of China

Traditional China; impact of West and its revolutionary consequences; Opium Wars; overthrow of Manchu Empire; Nationalist China; Chinese Communism; and Peoples Republic. Culture, social structure, and politics. (3)

#### POS 361 Japan in the Modern World

Developments from commercial revolution of late 17th century to 20th century. Shaping of politics and knowledge that underlies modern transition of Japan. (3)

#### POS 371 Modern and Contemporary Africa

The rise of nationalism; end of colonialism; rise of neo-colonialism; Cold War influences; managing the problems of independence. See also Afs 371 and Hist 371. (3)

#### POS 372 Issues in the Development and Administration of Public Policy

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

#### POS 374 Constitutional Law: Principles and Comparative Traditions

Law as an idea; Eastern and Western concepts of law; various natural law, positive law, civil law, and common law traditions. (3)

#### POS 375 Constitutional Law: American Jurisprudence

Theoretical and historical foundations of American constitutionalism; creation, development, and evolution of the American judicial and legal tradition. (3)

#### POS 377 Law and Judicial Process

Contemporary topics within the American judicial and legal system. Topics may include judicial politics, civil rights and liberties, legislation, and the court system. (3)

#### POS 378 Environmental Law

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

## POS 384 Mexican-American Politics

Mexican-American political movements; the institutional structures within which they have had to work; political issues and ideologies of Mexican Americans in the US. (3)

## POS 385 Politics of African Americans

Contemporary political development of African Americans; emphasis on the period from 1967 to the present. (3)

## POS 386 Politics of Latino Americans

Special problems and potentials of Latino Americans in their interaction with US political system. (3)

## POS 391 AIDS: Science, Culture, Power

Basic biology and epidemiology; the social construction of HIV infection and AIDS; responses of government, the private sectors, and different communities; cultural politics; ethical issues. May be used to fulfill a senior seminar. (3)

Courses open to graduate students.

## 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 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 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 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 American citizens 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 Internet 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)

POS 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. See Hrm 313. (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 481-489 Seminar

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 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 physiology, 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 Processes

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 Psychodrama and Action Therapies

Didactic and experiential introduction to the Action Methods approach particularly in the context of group therapy. Topics include psychodrama, role playing, skill training, and behavior simulation. Theories underlying psychodrama and role playing and research literature. 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 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, organization 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 for Public and Nonprofit Managers

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 405 or 457. (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 Resources 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. See Pos 378.(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. See Biol 330. (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. See Biol 335. (3)

## PADM 435 Geographic Information Systems

See Geog 314. (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. See Soc 349. (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 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 Health Services in the United States

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 Administration

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 Administration

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)

## Secondary Education

(See: Education: Secondary)

## Sociology

Courses open to upper-level undergraduate and graduate students.

#### SOC 303 The Development of Sociology

Development of classical perspectives within sociology. Karl Marx, Max Weber, Emile Durkheim and others. (3)

## SOC 304 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 315 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 impacts upon quality of work life. (3)

## SOC 320 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 321 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 322 Sociology of Religion

The institution of religion in American life. Major historical incidents; currently popular religions; how religion interacts with other elements in the society. (3)

## SOC 325 The Sociology of Education

Social factors involved in educational processes within US society. The interaction of educational institutions with various cultural, economic, and social factors. (3)

## SOC 327 Race and Ethnic Relations

Race and ethnicity in the US; history and present status of various racial and ethnic groups; political economy of race; changing public discourse of race and racial identities. (3)

## SOC 330 Sociology of Mental Health and

## Mental Illness

Mental disorders as major social problems; concept of mental illness in popular understanding, psychiatry and social sciences; cultural, social-psychological and sociological theories of development of mental disorders; empirical studies of cultural variation and social variables in mental disorders; social aspects of patient career; social prevention of mental disorders. (3)

## SOC 331 Criminology

Social processes and criminal behavior; theories of crime; social factors and causes of crime; law enforcement and the judicial process; corrections; prevention of crime. Prereq: Soc 101. (3)

## SOC 332 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 336 Aging, the Aged, and the Family

Issues of three- and four-generational families. Practical overview of developmental issues involved; examination of family intervention model. (3)

## SOC 339 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 both surviving individuals and society. (3)

## SOC 340 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 346 Community Organization

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 349 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 350 Sociology of Culture

Theory and method in the sociology of culture. May include issues related to high culture and popular culture, modernism and postmodernism, the politics of mass media, and the role of religion in contemporary societies. (3)

Courses open to graduate students.

#### 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 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 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 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 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

Courses open to upper-level undergraduate and graduate students.

SPAN 326 Review Grammar, Composition, and Conversation

Review of grammar. Writing and comprehension skills emphasized. Taught in Spanish. (3)

SPAN 345 United States Latino Writers

Poetry and prose of US Latinos that write in Spanish. Taught in Spanish. (3)

SPAN 377 La cultura hispana a traves del cine

Aspects of Hispanic culture examined through selected films from Latin America and Spain. Taught in Spanish. (3)

Courses open to graduate students.

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 458 Posboom

Study of various Latin American authors: Sainz, Jose Agustin, Puig, Peri Rossi, Ferre. Taught in Spanish. (3)

SPAN 463 Phonetics and History of the Language

Survey of the history of Spanish in Spain and Latin America. (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 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 490 Thesis

Prereq: consent of instructor. (3)

SPAN 495 Independent Study

Prereq: consent of instructor. (3)

## 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 403 Dramaturgy

Script selection and analysis, dramatic theory, dramaturgy, and other "prerehearsal" considerations of the text. (3)

THAR 409 Conditioning

To be taken every semester. (0)

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)

